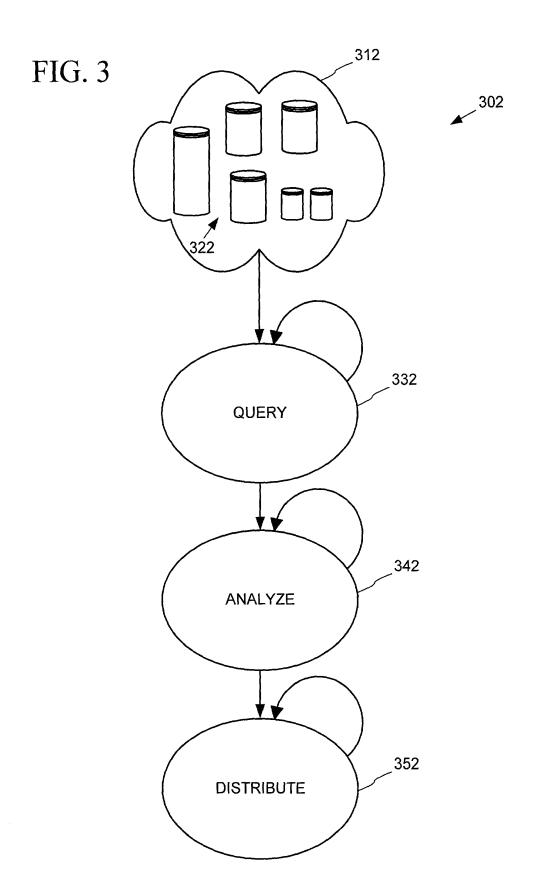
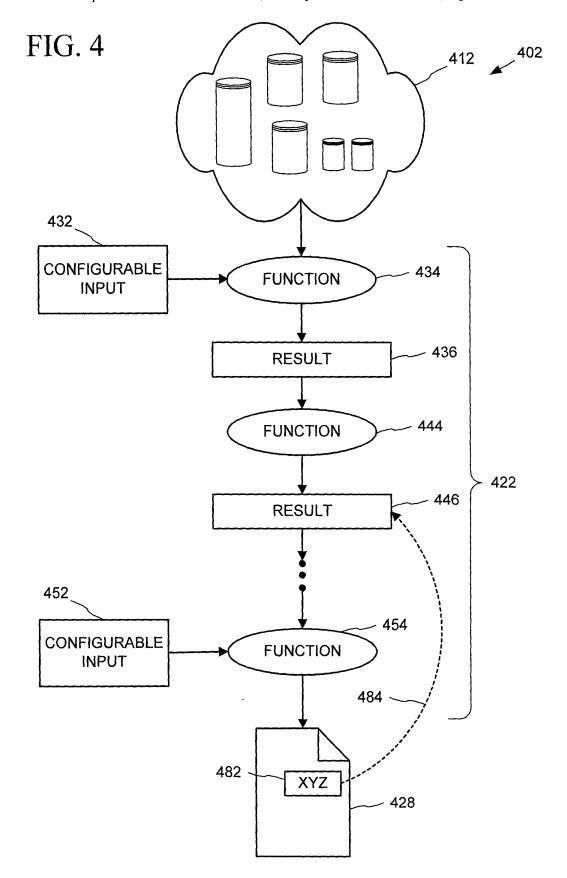
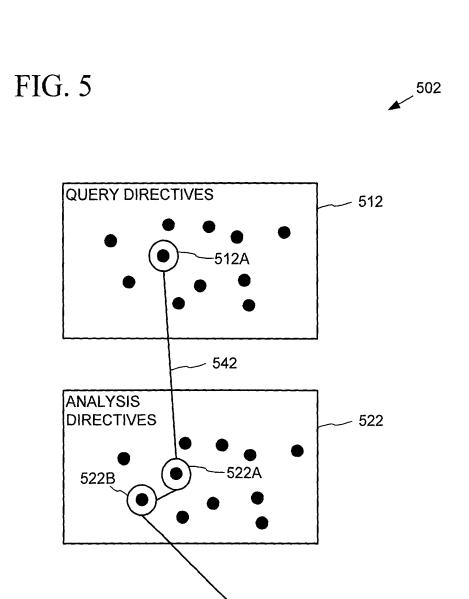


Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Express Mail No.: EL754021250US, Attorney Docket No.: 6115-60713, Page 3 of 103



Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Express Mail No.: EL754021250US, Attorney Docket No.: 6115-60713, Page 4 of 103



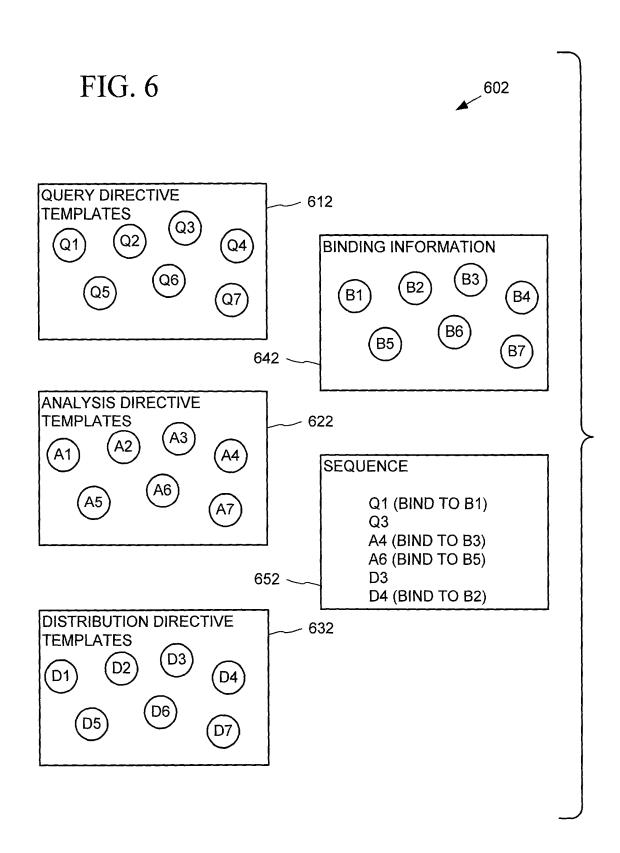


532B

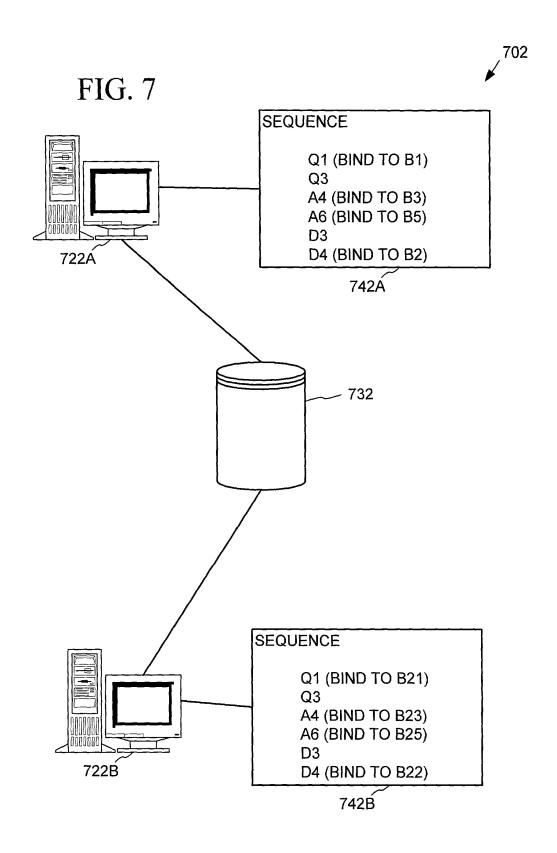
532

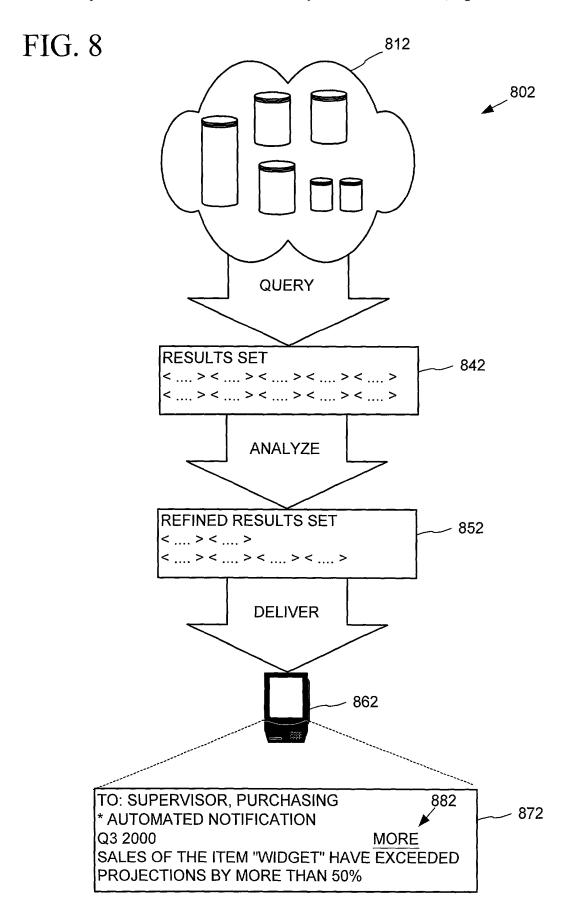
DISTRIBUTION

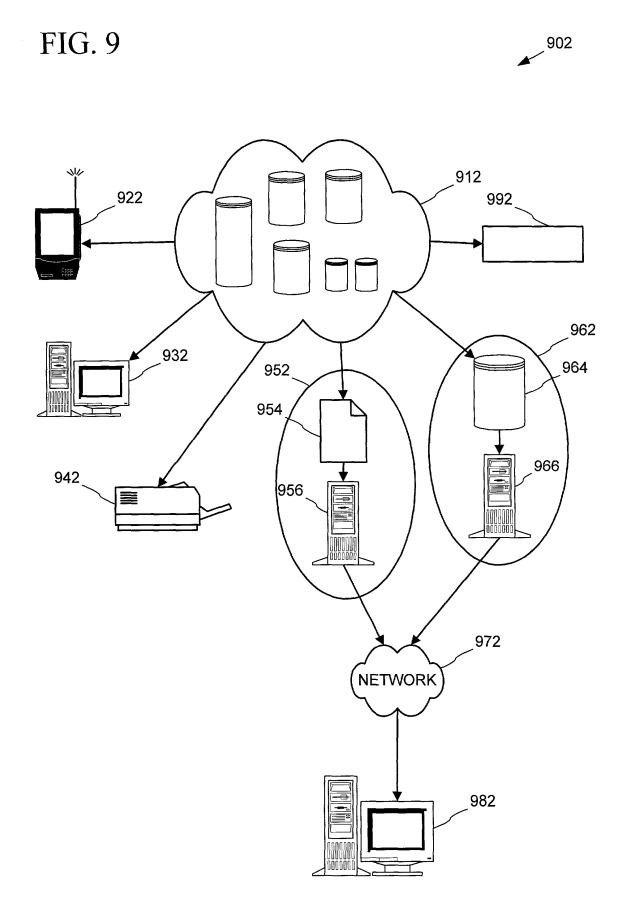
DIRECTIVES

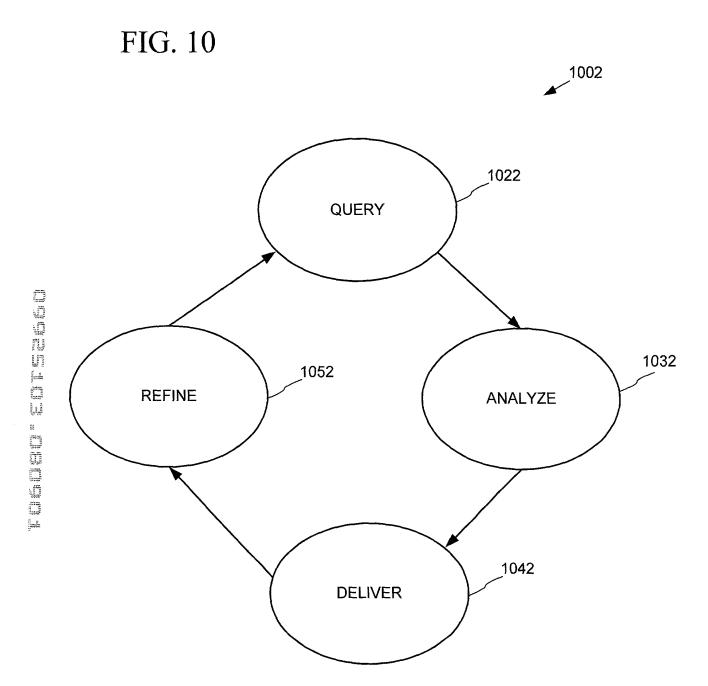


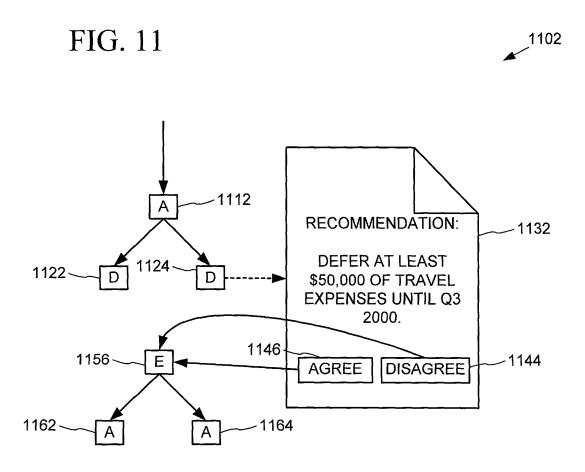
Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Express Mail No.: EL754021250US, Attorney Docket No.: 6115-60713, Page 7 of 103

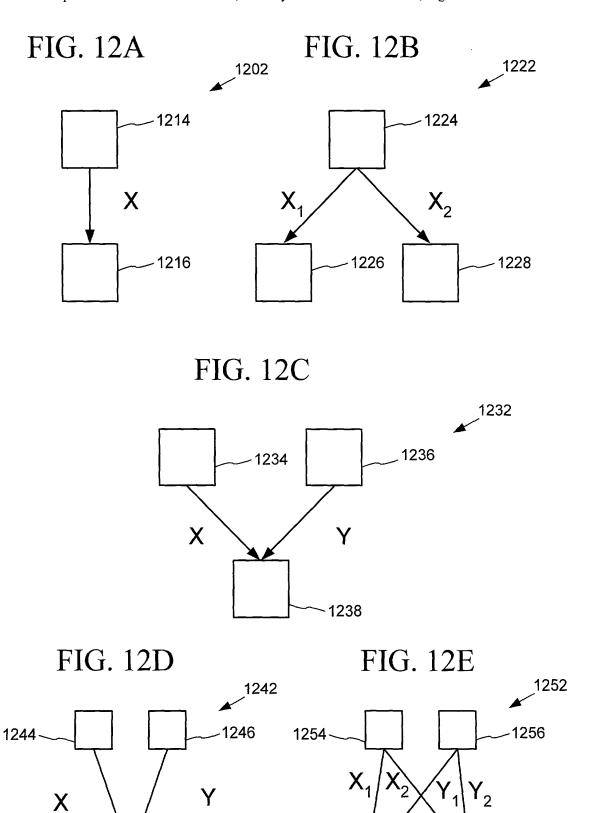












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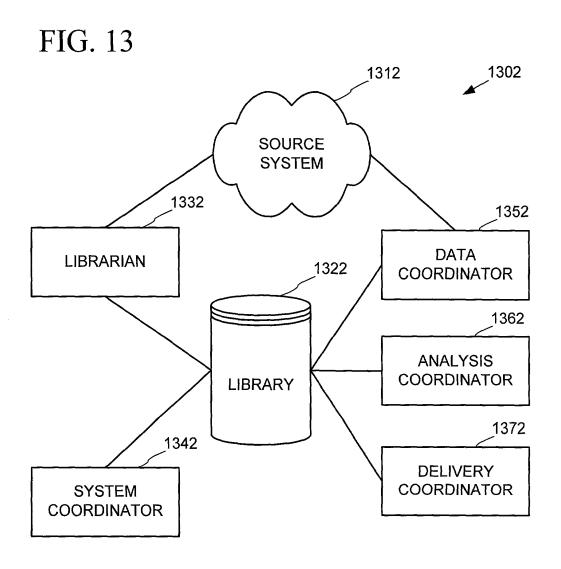
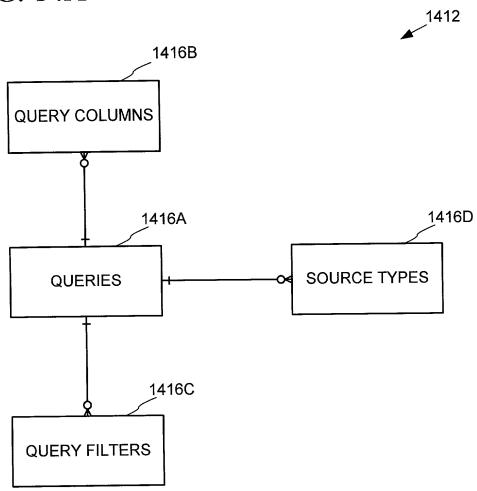


FIG. 14A



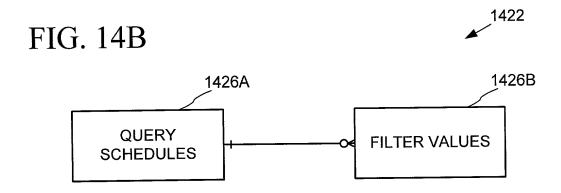


FIG. 14C

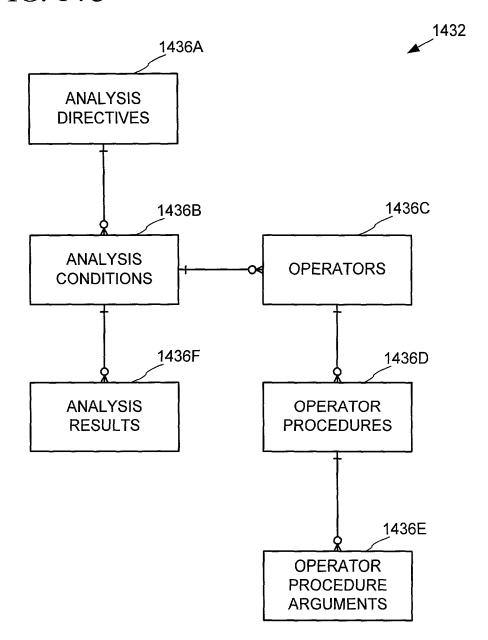


FIG. 14D

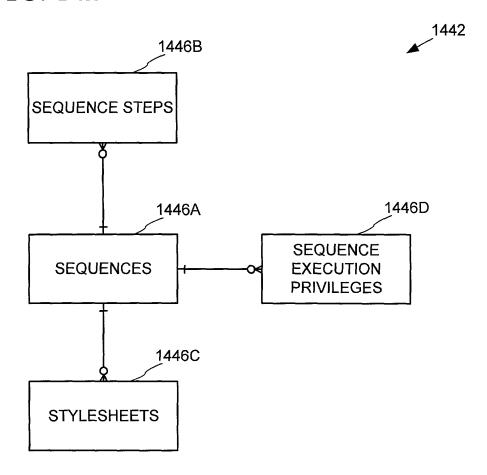


FIG. 14E

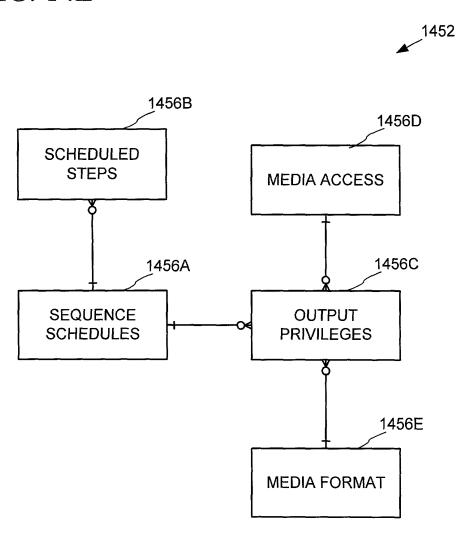
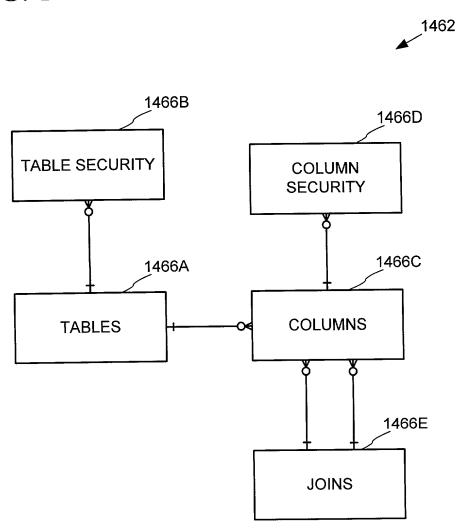
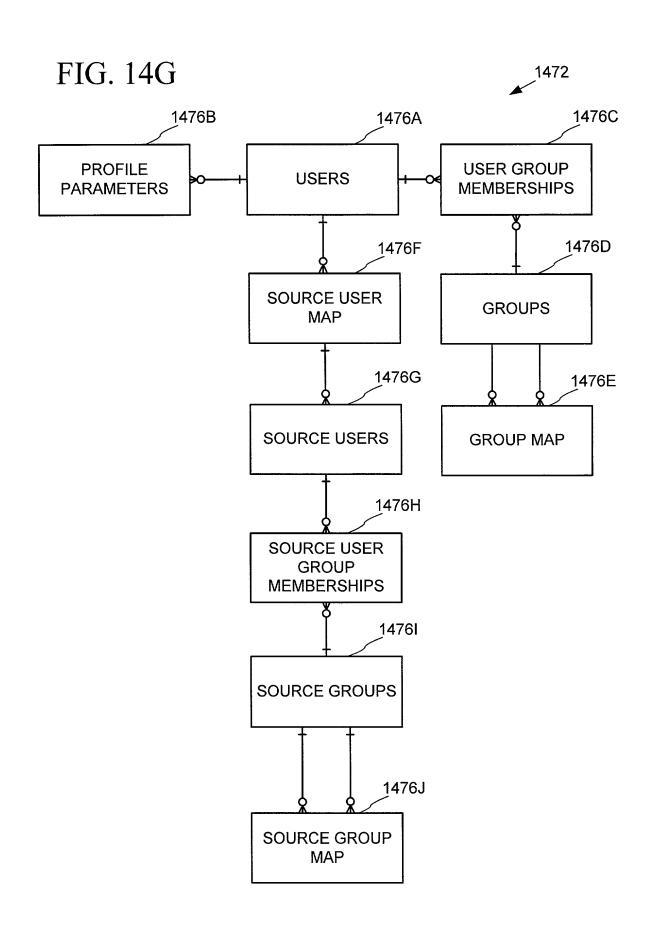
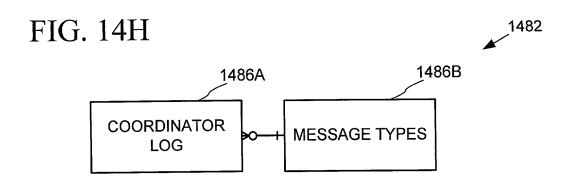


FIG. 14F





Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Express Mail No.: EL754021250US, Attorney Docket No.: 6115-60713, Page 20 of 103



	Ø	QUERY DIRECTIVES	IVES		
NAME	DESC	SOURCE	USER	STATUS	OPTION
NEW	NEW	SYSTEM A ▼ NB	NB	AVAILABLE 🔻	ADD
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REV	PTD REVENUE	SYSTEM B	ST	AVAILABLE 🔻	МОР
Z	FINANCIALS	SYSTEM B	ST	AVAILABLE 🔻	МОБ
SALES	SALES BY DEPT SYSTEM B	SYSTEM B	ST	AVAILABLE 🔻	MOD

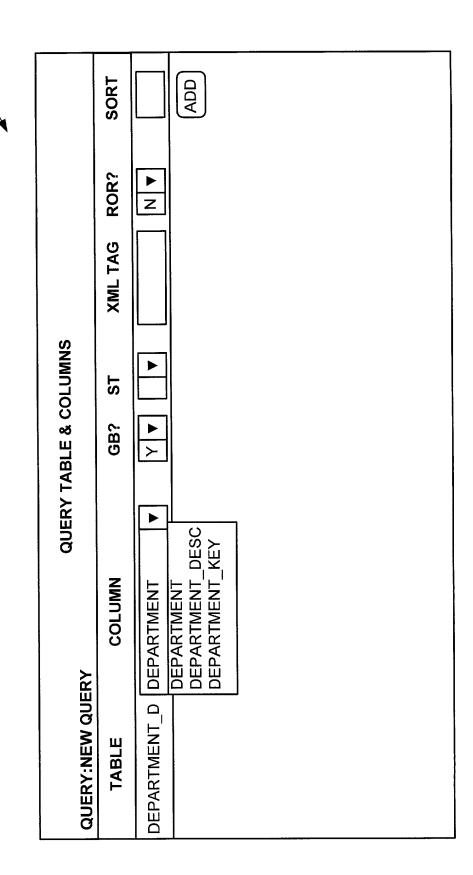
Express Mail No.: EL754021250US, Attorney Docket No.: 6115-60713, Page 21 of 103

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1704, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1704, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1704, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1704, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1704, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1704, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1704, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1704, (503) 226-7391, Inventors: SCHEURICH ET AL., TITLE: SYSTEMS AND METHODS FOR DEFINING 1704, (503) 226-7391, Inventors: SCHEURICH ET AL., TITLE: SYSTEMS AND METHODS FOR DEFINING 1704, (503) 226-7391, Inventors: SCHEURICH ET AL., TITLE: SYSTEMS AND METHODS FOR DEFINING 1704, (503) 226-7391, Inventors: SCHEURICH ET AL., TITLE: SYSTEMS AND METHODS FOR DEFINING 1704, (503) 226-7391, Inventors: SCHEURICH ET AL., TITLE: SYSTEMS AND METHODS FOR DEFINING 1704, (503) 226-7391, Inventors: SCHEURICH ET AL., TITLE: SCHEURICH

FIG. 15B

TABLE COLUMN GB? ST XML TAG ROR? SORT ACCOUNTING_DATE_D	QUERY:NEW QUERY		QUE	RY TAB	QUERY TABLE & COLUMNS	LUMNS		
▶ ◀ ▶	TABLE		COLUMN	GB?	ST	XML TAG	ROR?	SORT
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AR_REVENÜE_F AR_SCH_PMT_DTL_F AR_SCH_PMT_DTL_F AR_SCH_PMT_DTL_F AR_SCH_D AR_SCH_CUST_D ASSET_BOOK_D ASSET_EMPLOYEE_D ASSET_INVENTORY_F ASSET_TYPE_D ASSET_TYPE_D AUTHORIZER_D	AR_RECPT_STATUS_D	 						
AR_SHIP_VIA_D AR_SOLD_TO_CUST_D ASSET_BOOK_D ASSET_INVENTORY_F ASSET_TYPE_D ASSET_TYPE_D AUTHORIZER_D	AR_REVENUE_FAR_SCH_PMT_DTI_F							
ASSET_BOOK_D ASSET_EMPLOYEE_D ASSET_INVENTORY_F ASSET_TYPE_D AUTHORIZER_D	AR_SHIP_VIA_D							
ASSET_EMPLOYEE_D ASSET_INVENTORY_F ASSET_TYPE_D AUTHORIZER_D	ASSET_BOOK_D							
ASSET_TYPE_D AUTHORIZER_D	ASSET_EMPLOYEE_D							
AUTHORIZER_D	ASSET TYPE D							
	AUTHORIZER_D	<u> </u>						

FIG. 15C



Express Mail No.: EL754021250US, Attorney Docket No.: 6115-60713, Page 23 of 103

EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 17204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 17204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 17204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 17204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 17204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 17204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 17204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 17204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 17204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 17204, (503) 226-7391, Inventors: Systems Andrew 17204, (503) 226-7391, Inventors: Systems

	SORT	_	
	ROR?	z	
S	XML TAG	DEPARTMENT	
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SLE & C	GB?	>	ADD COLUMN DONE
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QUERY:NEW QUERY	TABLE	DEPARTMENT_D	

Express Mail No.: EL754021250US, Attorney Docket No.: 6115-60713, Page 24 of 103

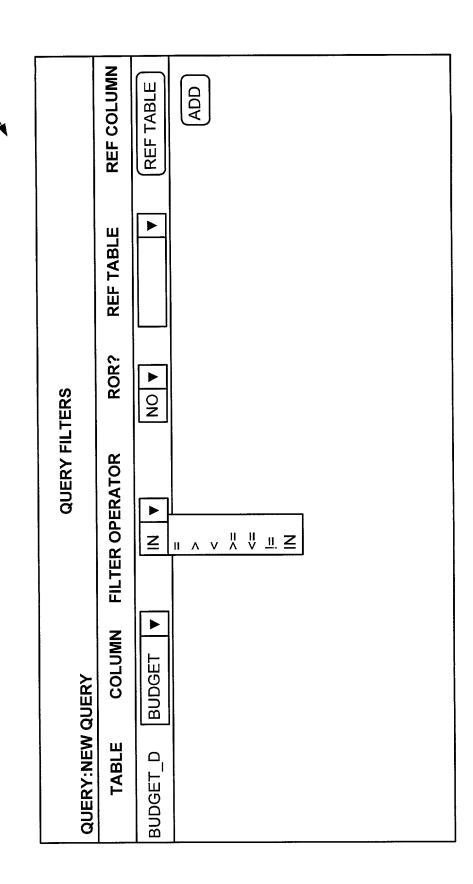
Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING PACUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Cregon PACUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, PROCESS INFORMATION FROM A PROCESS INFORMATI

FIG. 15E

	QUERY TABLE & COLUMNS	BLE & C	OLUMN	<u>s</u>		
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INC_STMT_LINES_D	LINE_NAME_	\		LINE_NAME	z	
INCOME_STMT_A	PTD_ACTUAL	z	SUM	PTD_ACTUAL	Z	
INCOME_STMT_A	PTD_BUDGET	z	SUM	PTD_BUDGET	Z	
INCOME_STMT_A	PTD_VARIANCE	z	SUM	PTD_VARIANCE N	N	
	(d)	ADD COLUMN DONE	UMN			

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXPERS Mail No.: EL754021250US, Attorney Docket No.: 6115-60713, Page 25 of 103

FIG. 15F



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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203, Inventors: SCHEURICH et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203, Inventors: SCHEURICH et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203, Inventors: SCHEURICH et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203, Inventors: SCHEURICH et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203, Inventors: SCHEURICH et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203, Inventors: SCHEURICH et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203, Inventors: SCHEURICH et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203, Inventors: SCHEURICH et al., Title: SYSTEMS AND METHODS FOR DEFI

FIG. 15G

QUERY:NEW QUERY	IERY	QUERY FILTERS	TERS		
TABLE	COLUMN	FILTER OPERATOR	ROR?	REF TABLE	REF COLUMN
BUDGET_D	BUDGET	Z	z		
PERIOD_D	PERIOD	11	Z		
DEPARTMENT_D DEPARTMENT	DEPARTME	= LN=	Z	DEPARTMENT_D DEPARTMENT_KEY	DEPARTMENT_KEY
		ADD FILTER FINISH			

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING PY204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING PY204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING PY204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING PY204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING PY204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING PY204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING PY204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING PY204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING PY204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING PY204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING PY204, (503) 226-7391, Inventors: SYSTEMS AND METHODS FOR DEFINING PY204, (503) 226-7391, Inventors: SYSTEMS AND METHODS FOR DEFINING PY204, (503) 226-7391, Inventors: SYSTEMS AND METHODS FOR DEFINING PY204, (503) 226-7391, Inventors: SYSTEMS AND METHODS FOR DEFINING PY204, (503) 226-7391, Inventors: SYSTEMS AND METHODS FOR DEFINING PY204, (503) 226-7391, Inventors: SYSTEMS AND METHODS FOR DEFINING PY204, (503) 226-7391, Inventors: SYSTEMS AND METHODS FOR DEFINING PY204, (503) 226-7391, Inventors: SYSTEMS AND METHODS FOR DEFINING PY204, (503) 226-7391, Inventors: SYSTEMS AND METHODS FOR DEFINING PY204, (503) 226-7391, Inventors: SYSTEMS AND METHODS FOR DEFINING PY204, (503) 226-7391, Inventors: SYSTEMS AND METHODS FOR DEFINING PY204, (503) 226-7391, Inventors: SYSTEMS AND METHODS FOR DEFINING PY204, (503) 226-7391, Inventors: SYSTEMS AND METHODS FOR DEFINING PY204, (503) 226-7391, Inventors: SYSTEMS AND PY204, (503) 2

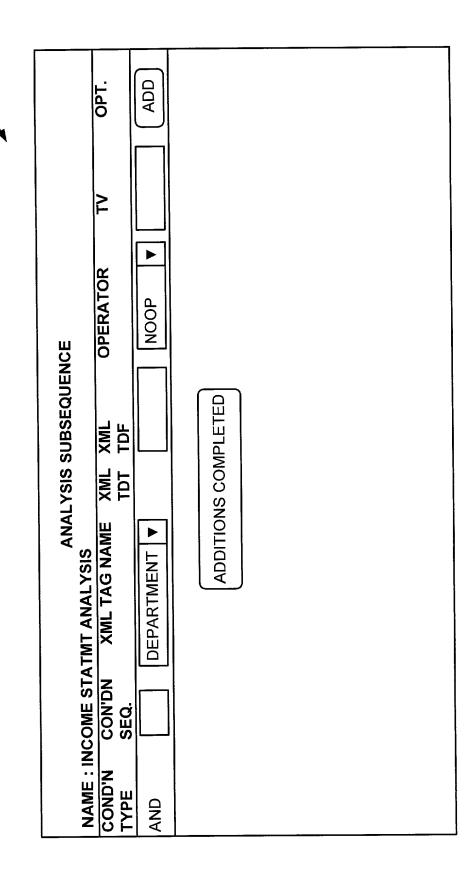
FIG. 15H

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RECTIVE: NEW QL	LAST RUN DATE OPTIONS		
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ANALYSIS YSIS SUBSEQUENC	USER NAME	NB	
YOU ARE TYING THIS ANAL	ANALYSIS SUBS NAME	INCOME STMT ANALYSIS	

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Express Mail No.: EL754021250US, Attorney Docket No.: 6115-60713, Page 28 of 103

FIG. 15I

1518

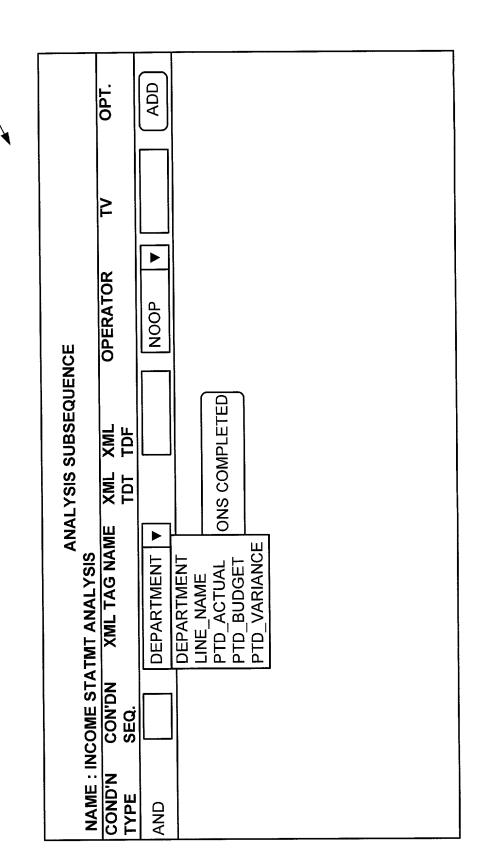


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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 1203) 226-7391, Inventors: Systems Andrew 1203, Inventors: Systems

FIG. 15J

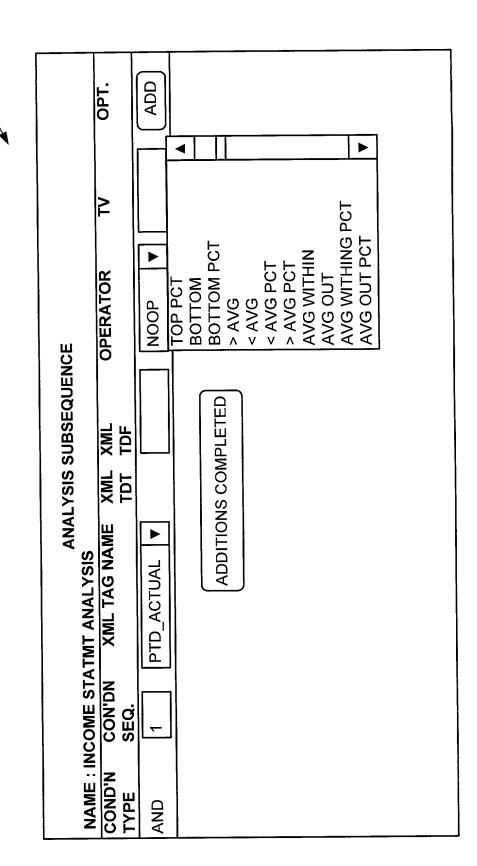
1520



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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 121 S.W. Salmon Street, Oregon 121 S.W. Salmon Street,

FIG. 15K



Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXPECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Express Mail No.: EL754021250US, Attorney Docket No.: 6115-60713, Page 31 of 103

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Express Mail No.: EL754021250US, Attorney Docket No.: 6115-60713, Page 32 of 103 EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Porfland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING

FIG. 15M

ADD.	ADD, EDIT OR DELETE SEQUENCES	SEQUENCES		
₽	NAME	DESCRIPTION	STATUS USER OPT	R OPT
	INCOME STAT'T ANALYSIS	INCOME STAT'T ANALYSIS	AVAIL ▼ NB	ADD
24	FINANCIAL STATEMENT	FINANCIAL STATEMENT	AVAIL TS	MOD
25	FSV	FSV	AVAIL • NB	MOD
26	COST CENTER SCORING 1	COST CENTER SCORING	DISAB ▼ LS	MOD
27	COST CENTER SCORING 2	CSS PTD-VARIANCE	AVAIL • LS	MOD

FIG. 15N

DIRECTIVE ID LUB LUD QUERY FOR STEP ▼ ADD DEFINE
VARIANCE AND VARIANCE PERCENT NEW QUERY
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LAKKY'S QUEKY YET ANOTHER LARRY QUERY
_ARRY'S QUERY YET ANOTHER LARRY (

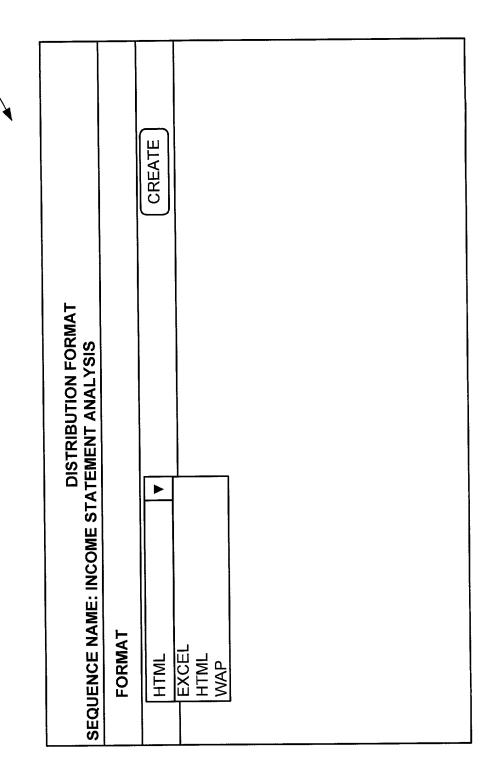
Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Express Mail No.: EL754021250US, Attorney Docket No.: 6115-60713, Page 34 of 103

FIG. 150

SEQ	SEQUENCE NAM	Ž ij	ADD OR EDIT SEQUENCE STEP INFORMATION COME STATEMENT ANALYSIS	P INFORMATION	
<u> </u>	STEP DIR	DIRECTIVE TYPE	DIRECTIVE ID	TUB LUD	
28	_	QUERY DIRECTIVE	NEW QUERY ▼	12/15/00	MOD DEFINE
28	2	ANALYSIS DIRECTIVE	▼ DIRECTIVE	IVE	
		QUERY DIRECTIVE ANALYSIS DIRECTIVE	·		
		EVENT DIRECTIVE DISTRIBUTION DIRECTIVE	LIVE		
··					

SEQ	UENCE NAME: IN	ADD OR EDIT SEQUENCE STEP INFORMATION SEQUENCE NAME: INCOME STATEMENT ANALYSIS	NFORMATION	
	ID ST DIRECTIVE TYPE	YPE DIRECTIVE ID	TUB LUD	
28 1	28 1 QUERY DIR	NEW QUERY ▼	12/15/00	MOD DEFINE
28 2	2 ANALYSIS DIR	28 2 ANALYSIS DIR INCOME STMT ANALYSIS ▼	NB 12/15/00	MOD DEFINE
	3 DISTRIBUTION	TION DIRECTIVE ▼ DIRECTIVE		
28			1	
28 3				
28 3				
28 3				
788				
28				
28 83				

Express Mail No.: EL754021250US, Attorney Docket No.: 6115-60713, Page 36 of 103 EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING



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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: SCHEURICH 97204, (503) 226-73

FIG. 15R

HOME INSTRUCTIONS	SCHEDULE SEQUENCES
SEQUENCES	SEQUENCE NAME USER SCHEDULE DESC FREQ PRIORITY
ADMIN	INCOME STAT'T ANALYSIS ▼ LS [ISA FOR DEC '00] [IMMEDIATE ▼ ADD]
SYS SETTINGS	SELECT SEQUENCE TO VIEW
LOGS APPI SETTINGS	COST CENTER SCORING - PTD VARIANCE ▼
MEDIA SETT'S	

FIG. 15S

SCHEDULE SEQUENCES	JENCES		
SEQUENCE NAME USER SCHE	USER SCHEDULE DESC	FREQ	PRIORITY
INCOME STAT'T ANALYSIS ▼ LS ISA F	ISA FOR DEC '00	IMMEDIATE ▼	ADD
SELECT SEQUENCE TO VIEW		ONCE	
COST CENTER SCORING - PTD VARIANCE ▼		EX I KACI DAILY	
		WEEKLY MONTHLY	

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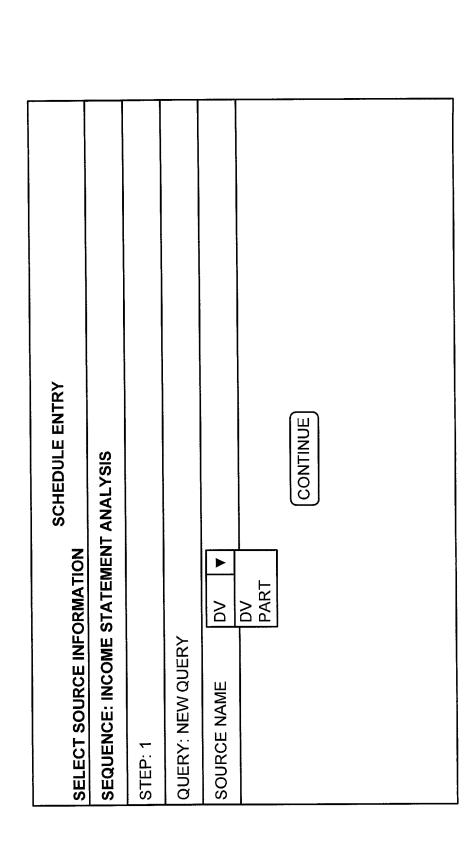
Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: SCHEURICH 97204, (503) 226-73

FIG. 15T

SELECT THE DAYS YOU WISH THE SEQUENCE TO RUN SLECT THE DAYS YOU WISH THE SEQUENCE TO RUN START AT START AT NEXT START DATE ZOOO	
--	--

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Express Mail No.: EL754021250US, Attorney Docket No.: 6115-60713, Page 40 of 103

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IG. 15V

SCHEDULE ENTRY SELECT SOURCE INFORMATION	
SEQUENCE: INCOME STATEMENT ANALYSIS	
STEP: 1	
QUERY: NEW QUERY	
SOURCE NAME PART	
SOURCE SET OAS ▼	
CONTINUE	
	* J

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FIG. 15W

SEQUENCE: INCOME SCHEDULE: INCOME SEQUENCE STEP: 1 NEW QUERY	FILTER VALUES NCOME STATEMENT ANALYSIS NCOME STATEMENT ANALYSIS	LUES YSIS YSIS F	FILTER VALUES FOR QUERY INCOME STATEMENT ANALYSIS NCOME STATEMENT ANALYSIS FOR DECEMBER 2000 STEP: 1	
TABLE NAME	COL NAME	ОР	FILTER VALUE	
BUDGET_D	BUDGET	Z	ACTUAL • MOD	
			CORPORATE 1997 • MOD	DEL
-			▼ ADD	
PERIOD_D	PERIOD	II	DEC-2000 ▼ MOD	
IF YOU HAVE MAND, (ADE CHANGES AND OR DEL BUTTONS, ⁻ FINIS	AND NOT SINS, THEY PERINISHED	HAVE MADE CHANGES AND NOT SUBMITTED THEM USING THE ADD, MOD, OR DEL BUTTONS, THEY WILL NOT BE COMMITTED FINISHED	

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FIG. 15X

SEQSCHED: 1815 INCOME STATEMENT ANALYSIS FOR DECEMBER 2000	USER ACCESS FORMAT ST CS RESULT TAG RESULT VALUE OPT	NEILB ▼ EMAIL_DATA ▼ HTML ▼	HNEILB LARRYS ERICH MARC SALES MARKET MOD, OR DEL BUTTONS, THEY WILL NOT BE COMMITTED HQ FINISHED		SEQSCHEI USER NEILB NEILB NEILB NARC SALES MARKET HQ	ACCESS EMAIL_DATA IF YOU HAVE MOI	SEQUENC FORMAT HTML D, OR DEL BU	SE OUTP SES AND TTONS,	FOR DECEMBER SEOR POR DECEMBER SEOR DECEMBER	RESULT W	GROUPS ALUE OPT ALUE ADD, D	
--	--	-----------------------------	---	--	--	---------------------------------------	-----------------------------------	------------------------------	--	----------	-----------------------------	--

FIG. 15Y

SEQSCHED	SEQUENCE OUTPUT PRIVILEGES SEQSCHED: 1815 INCOME STATEMENT ANALYSIS FOR DECEMBER 2000	SEQUENCI	E OUTPU	SEQUENCE OUTPUT PRIVILEGES MENT ANALYSIS FOR DECEMBER 2	0000	GROUPS	
USER	ACCESS	FORMAT	ST (CS RESULT TAG	RESULT VALUE	ALUE	OPT
NEILB ▼	EMAIL_DATA ▼	HTML					ADD
	EMAIL_DATA EMAIL_URL						
	WEB DESK_ALERT						
	IF YOU HAVE MOE	MADE CHANG), OR DEL BUT	ES AND TONS, T	IF YOU HAVE MADE CHANGES AND NOT SUBMITTED THEM USING THE ADD, MOD, OR DEL BUTTONS, THEY WILL NOT BE COMMITTED	THEM USIN	G THE ADD ED	-
			FINIS	FINISHED			

FIG. 15Z

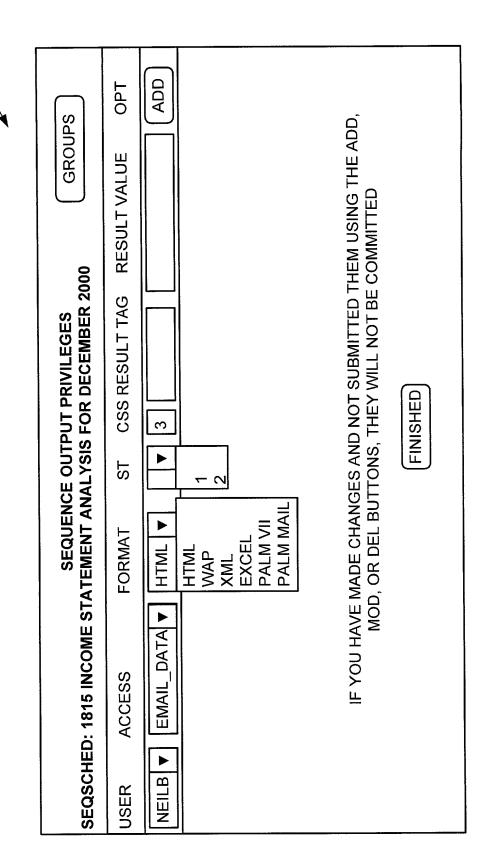


FIG. 15AA

RESULT VALUES SEQSCHED: 1815 INCOME STATEMENT ANALYSIS FOR DECEMBER 2000 SEQUENCE OUTPUT PRIVILEGES NO RESULT TAG NEEDED **FINISHED** SELECT DESIRED TAG SELECT DESIRED TAG **RESULT TAG** PTD_BUDGET PTD_VARIANCE LINE_NAME PTD_ACTUAL DEPARTMENT CONDITION SUBSEQUENCE SUBSEQUENCE 2

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FIG. 15BB

SEQUENCE OUTPUT PRIVILEGES EQSCHED: 1815 INCOME STATEMENT ANALYSIS FOR DECEMBER 2000	
SELECT	
<val></val>	•
Ц	
Ц	
Ц	
Ц	
<val> IN NON-PRODUCT SALES</val>	
Ц	
Ц	
Ц	
Z	
	>
FINISHED	

FIG. 15CC

SEQUENCE OUTPUT PRIVILEGES SCHED: 1815 INCOME STATEMENT ANALYSIS FOR DECEMBER 2000	IDITION SUBSEQUENCE RESULT TAG RESULT VALUES	SSEQUENCE 2 ▼ DEPARTMENT ▼	FINISHED
SEQSCHED: 1815 INCOME STA	CONDITION SUBSEQUENCE	SUBSEQUENCE 2 ▼	

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(IG. 15DD)

SEQSCHED	SEQSCHED: 1815 INCOME ST	SEQUENCE OUTPUT PRIVILEGES IE STATEMENT ANALYSIS FOR DECEMBER 2000	SE OUTI	FOR DE	ILEGES CEMBER	2000	GROUPS	PS
USER	ACCESS	FORMAT	ST	CSS RE	CSS RESULT TAG		RESULT VALUE	OPT
NEILB ▼	EMAIL_DATA ▼	■ HTML	•	3				ADD
NEILB	EMAIL_DATA ▼	HTML •	2	2 DE	DEPARTME	XML</td <td><?XML VERSION =</td><td>MOD</td></td>	XML VERSION =</td <td>MOD</td>	MOD
	IF YOU HAVE MADE CHANGES AND NOT SUBMITTED THEM USING THE ADD, MOD, OR DEL BUTTONS, THEY WILL NOT BE COMMITTED	AVE MADE CHANGES AND NOT SUBMITTED THEM USING MOD, OR DEL BUTTONS, THEY WILL NOT BE COMMITTED	SES ANE	NOT SU	JBMITTED	THEM US	SING THE AD	JD,
			N	FINISHED				

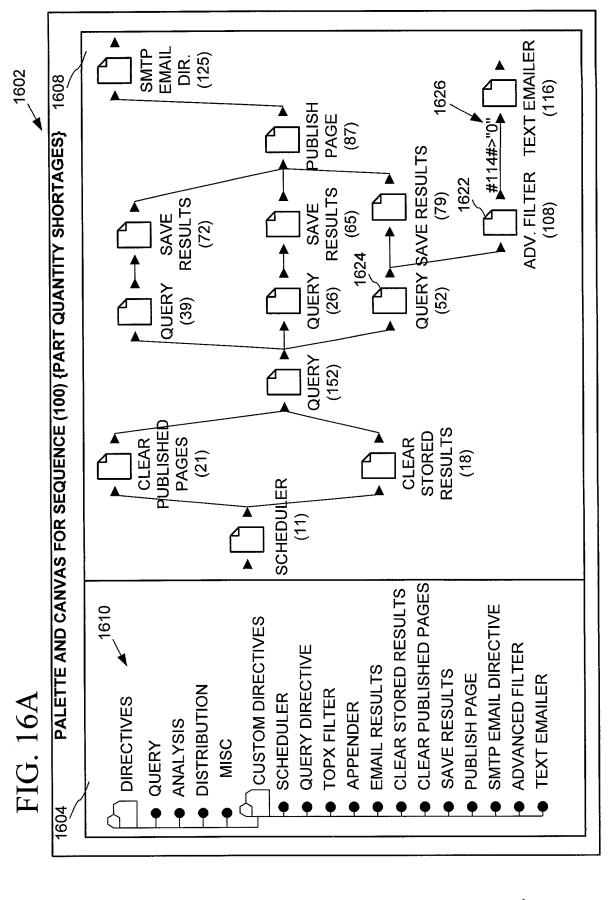
Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Express Mail No.: EL754021250US, Attorney Docket No.: 6115-60713, Page 50 of 103

FIG. 15EE

SEQUENCE NAME	USER SC	USER SCHEDULE DESC	FREQ	PRIORITY
TEST SEQUENCE FOR PRIV ▼	ST		IMMEDIATE ▼	ADD
SELECT SEQUENCE TO VIEW				
TEST SEQUENCE FOR PRIVS AND STEPS	ND STEPS	•	VIEW	
TEST SEQUENCE FOR PRIVS AND STEPS COST CENTER SCORING - PTD COST CENTER SCORING - PTD VARIANCE TEST VOAGE AR - PTD REVUENUE BY DEPARTMENT SOCCER SCORES BUDGET VARIANCE SCORING INCOME STATEMENT ANALYSIS	ND STEPS VARIANCE STMENT S			

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING Express Mail No.: EL754021250US, Attorney Docket No.: 6115-60713, Page 51 of 103

SEQUENCE NAME USER SCHEDULE DESC FREQ PRIORITY TEST SEQUENCE FOR PRIV ▼ LS IMMEDIATE ▼ ADD SELECT SEQUENCE FOR PRIVS AND STEPS ▼ VIEW VIEW TEST SEQUENCE FOR PRIVS AND STEPS ▼ VIEW VIEW SEQUENCE: INCOME STATEMENT ANALYSIS USER: NB ID DESCRIPTION STATUS FREQ START OPTIONS 1815 INCOME STATT ANALYSIS DEC 2001 SCHED DAILY ▼ Q8:30 PM MOD PRIVILEGES	SCH	SCHEDULE SEQUENCES	INCES		
IMMEDIATE ▼ VIEW VIEW START AILY ▼ 23-APR-2001 08:30 PM	SEQUENCE NAME	USER SCHED	ULE DESC	FREQ	PRIORITY
FREQ START SAPR-2001 OB:30 PM PRIV	TEST SEQUENCE FOR PRIV ▼	ST	MI] [IIM	MEDIATE ▼	ADD
VIEW	SELECT SEQUENCE TO VIEW				
FREQ START AILY ▼ 23-APR-2001 08:30 PM PRIV	TEST SEQUENCE FOR PRIVS AN	D STEPS ▼		/IEW	
S FREQ START DAILY ▼ 23-APR-2001 08:30 PM PRIV	SEQUENCE: INCOME STATEMENT A	NALYSIS USER	. NB		
DAILY ▼ 23-APR-08:30 PI		STATUS		START	OPTIONS
	1815 INCOME STAT'T ANALYSIS DEC	; 2001 SCHED	DAILY	23-APR-200 08:30 PM	1 MOD DEL



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FIG. 16B

SEQUENCE PROPERTIES	RTIES	X
SEQUENCE NAME: DESCRIPTION: NOTES:	AME: PART QUANTITY SHORTAGES FINDS PART QUANTITY SHORTAGES SAVE THIS ONE	OK
SEQUENCE AUTHOR: SEQUENCE STATUS:	UTHOR: AUTHOR1 TATUS: STATUS1	ADD VARIABLE
GLOBAL VARIABL	IABLES:	
CAPTION: VALUE:	CONNECT STRING JDBC:ORACLE.THIN@123.245.23.1:1521:CONNECT30	- STRING
CAPTION: VALUE:	DATABASE USER NAME NAME: USER_NAME RRIC1234	ME
CAPTION: VALUE:	DATABASE PASSWORD NAME: USER_PWD SEQUENCE	Q)
CAPTION: VALUE:	OWNERNAME NAME: OWNERNAME QRY_ANALYSIS	AME
CAPTION: VALUE:	CURRENT PERIOD NAME: CURPERIOD (1997-09) SEP-97	OO

1660 ID: 108 DIRECTIVE NAME: (ADFILTER) ADVANCED FILTER CANCE PARAM NAME (FILTER_EXP) FILTER EXPRESSION INPUT INPUT #REQUIRED_QUANTITY# >200 DB3(52) RESULT DATA INPUT S DIRECTIVE PROPERTIES ACTIVITY

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SUM4 78260 178828 390000 3510 -240000 -244800 SUM3 -43092 48750 -1440 4800 COST CENTER ANALYSIS 244800 240000 ш SUM2 43092 1440 4800 Ш Ω 48750 0 0 0 0 SUM1 0 დ 7 ← **CLEANING AND MAIN** ACCOMMODATION ACCOUNT DESC **ADVERTISING** CAR RENTAL **BAD DEBT** മ AIRFARE ⋖ BROWSER

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING PARECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Express Mail No.: EL754021250US, Attorney Docket No.: 6115-60713, Page 56 of 103

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FIG. 18

</DF DIRECTIVE DEFINITION>

_1801

<DF DIRECTIVE DEFINITION DIRECTIVE_ID="DB2" DIRECTIVE NAME="DATA DIRECTIVE"</p> THREADING EFFECT="SPLIT" DIRECTIVE DESC="SQL DATADIRECTIVE THAT SPLITS RESULTS ON GIVEN COLUMN" DIRECTIVE_VENDOR="DPA" DIRECTIVE VERSION="1" DIRECTIVE CATEGORY="DPA-MISC"> <DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4"</p> PORT="9070"/> <IN PARAMETERS> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="SQL"</p> PARAM DATA TYPE="STRING" PARAM NAME="SQL"/> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="COLUMN TO SPLIT"</p> PARAM DATA TYPE="STRING" PARAM_NAME="SPLIT_COLUMN"/> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="CONNECTION STRING" PARAM DATA TYPE="STRING" PARAM NAME="CONNECTION STRING"/> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="DATABASE USER NAME" PARAM DATA TYPE="STRING" PARAM NAME="USERNAME"/> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="DATABASE PASSWORD" PARAM_DATA_TYPE="STRING" PARAM_NAME="PWD"/> </IN PARAMETERS> **<OUT PARAMETERS>** <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULT DATA" PARAM DATA TYPE="STRING" PARAM NAME="RESULTSET"/> <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULT METADATA" PARAM_DATA TYPE="STRING" PARAM NAME="RESULTMETADATA"/> <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="SPLIT VALUE" PARAM DATA TYPE="STRING" PARAM NAME="SPLITVALUE"/> </OUT PARAMETERS>

FIG. 19A

_1901

```
- <DF DIRECTIVE DEFINITION LIST>
- <DF_DIRECTIVE_DEFINITION DIRECTIVE_ID="SB1" DIRECTIVE_NAME="SCHEDULER"
DIRECTIVE CATEGORY="DPA-MISC" THREADING_EFFECT="SPLIT"
DIRECTIVE DESC="SCHEDULE DIRECTIVE" DIRECTIVE VENDOR="DPA"
DIRECTIVE VERSION="1">
- <!-- CAN ADD A TYPE OR ICON NAME
- <IN PARAMETERS>
 <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="FREQUENCY"
PARAM DATA TYPE="STRING" PARAM NAME="FREQUENCY" />
 </IN PARAMETERS>
 <OUT PARAMETERS />
DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4"
PORT="9070" />
//DF_DIRECTIVE_DEFINITION>
FDF_DIRECTIVE_DEFINITION DIRECTIVE_ID="DB2" DIRECTIVE_NAME="DATA DIRECTIVE"
THREADING_EFFECT="SPLIT" DIRECTIVE_DESC="SQL DATADIRECTIVE THAT SPLITS
RESULTS ON GIVEN COLUMN" DIRECTIVE_VENDOR="DPA" DIRECTIVE_VERSION="1"
PARECTIVE CATEGORY="DPA-MISC">
SDEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4" PORT="9070" /
IN PARAMETERS>
PARAMETER PARAM TYPE="IN" PARAM CAPTION="SQL"
PARAM DATA TYPE="STRING" PARAM_NAME="SQL" />
★PARAMETER PARAM TYPE="IN" PARAM CAPTION="COLUMN TO SPLIT"
PARAM_DATA_TYPE="STRING" PARAM_NAME="SPLIT_COLUMN" />
 <PARAMETER PARAM TYPE="IN" PARAM CAPTION="CONNECTION STRING"
PARAM DATA TYPE="STRING" PARAM_NAME="CONNECTION_STRING" />
 <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="DATABASE USER NAME"
PARAM DATA TYPE="STRING" PARAM NAME="USERNAME" />
 <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="DATABASE PASSWORD"
PARAM_DATA_TYPE="STRING" PARAM NAME="PWD" />
 </IN PARAMETERS>
```

FIG. 19B

```
- <OUT PARAMETERS>
 <PARAMETER PARAM_TYPE="OUT" PARAM CAPTION="RESULT DATA"
PARAM DATA TYPE="STRING" PARAM NAME="RESULTSET" />
 <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULT METADATA"
PARAM DATA TYPE="STRING" PARAM NAME="RESULTMETADATA" />
 <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="SPLIT VALUE"
PARAM DATA TYPE="STRING" PARAM NAME="SPLITVALUE" />
 </OUT PARAMETERS>
 </DF DIRECTIVE DEFINITION>
- <DF_DIRECTIVE_DEFINITION DIRECTIVE_ID="AB1" DIRECTIVE_NAME="TOPX FILTER"
THREADING_EFFECT="STANDARD" DIRECTIVE DESC="FILTER OUT TOP X ROWS FROM
RESULTSET" DIRECTIVE_VENDOR="DPA" DIRECTIVE_VERSION="1"
DIRECTIVE CATEGORY="DPA-MISC">
 <DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4"</p>
PORT="9070" />
-XIN_PARAMETERS>
**PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULT SET METADATA"
PARAM_DATA_TYPE="STRING" PARAM NAME="RESULTMETADATA" />
PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="RESULT SET"
PARAM DATA TYPE="STRING" PARAM NAME="RESULTSET" />
PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="COLUMN POSITION FOR TOPX"
PARAM_DATA_TYPE="STRING" PARAM_NAME="TOPX COLUMN" />
IN PARAMETERS>
SOUT PARAMETERS>
PARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULT DATA"
PARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULT METADATA"
PARAM DATA TYPE="STRING" PARAM NAME="RESULTMETADATA" />
 </OUT PARAMETERS>
 </DF DIRECTIVE DEFINITION>
- <DF_DIRECTIVE_DEFINITION DIRECTIVE_ID="AB2" DIRECTIVE_NAME="APPENDER"
DIRECTIVE TYPE="" THREADING EFFECT="JOIN" DIRECTIVE DESC="REJOIN SPLIT
RESULTSETS" DIRECTIVE_VENDOR="DPA" DIRECTIVE_VERSION="1"
DIRECTIVE CATEGORY="DPA-MISC">
 <DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4" PORT="9070" /</p>
- <IN PARAMETERS>
<PARAMETER PARAM_TYPE="IN" PARAM CAPTION="RESULT SET METADATA"
PARAM DATA TYPE="STRING" PARAM NAME="RESULTMETADATA" />
 <PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULT SET"
PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTSET" />
 </IN PARAMETERS>
```

FIG. 19C

```
- <OUT PARAMETERS>
 <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULT DATA"
PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTSET" />
 <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULT METADATA"
PARAM DATA TYPE="STRING" PARAM NAME="RESULTMETADATA" />
 </OUT PARAMETERS>
 </DF DIRECTIVE DEFINITION>
- <DF_DIRECTIVE_DEFINITION DIRECTIVE_ID="MB1" DIRECTIVE_NAME="EMAIL RESULTS"
THREADING EFFECT="STANDARD" DIRECTIVE_TYPE="" DIRECTIVE_DESC="SIMPLE
EMAIL DIRECTIVE DIRECTIVE VENDOR="DPA" DIRECTIVE VERSION="1"
DIRECTIVE CATEGORY="DPA-MISC">
 <DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4" PORT="9070" /</p>
-SIN PARAMETERS>
PARAMETER PARAM TYPE="IN" PARAM CAPTION="EMAIL ADDRESS LIST"
PARAM DATA TYPE="STRING" PARAM NAME="MAILADR" />
SPARAMETER PARAM TYPE="IN" PARAM CAPTION="SUBJECT LINE"
PÄRAM DATA TYPE="STRING" PARAM NAME="SUBJECT" />
PARAMETER PARAM TYPE="IN" PARAM CAPTION="MESSAGE DATA"
PARAM_DATA_TYPE="STRING" PARAM NAME="MESSAGE" />
</IN PARAMETERS>
SOUT PARAMETERS />
DF DIRECTIVE DEFINITION>
-- DF_DIRECTIVE_DEFINITION DIRECTIVE_ID="CRB1" DIRECTIVE_NAME="CLEAR STORED
RESULTS" THREADING EFFECT="STANDARD" DIRECTIVE TYPE=""
DIRECTIVE DESC="REMOVE PREVIOUS RESULT SETS FROM REPOSITORY"
DIRECTIVE_VENDOR="DPA" DIRECTIVE_VERSION="1" DIRECTIVE_CATEGORY="DPA-
MISC">
<DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4" PORT="9070" /</pre>
- <IN PARAMETERS>
 <PARAMETER PARAM TYPE="IN" PARAM CAPTION="OWNER ID"
PARAM DATA TYPE="STRING" PARAM NAME="OWNERID" />
 <PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULTNAME"
PARAM_DATA TYPE="STRING" PARAM NAME="RESULTNAME" />
</IN PARAMETERS>
<OUT PARAMETERS />
</DF_DIRECTIVE_DEFINITION>
```

FIG. 19D

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- <DF DIRECTIVE DEFINITION DIRECTIVE ID="CRC1" DIRECTIVE NAME="CLEAR" PUBLISHED PAGES" THREADING EFFECT="STANDARD" DIRECTIVE TYPE="" DIRECTIVE DESC="REMOVE PREVIOUS PUBLISHED PAGES FROM REPOSITORY" DIRECTIVE VENDOR="DPA" DIRECTIVE_VERSION="1" DIRECTIVE_CATEGORY="DPA-MISC"> <DEPLOYMENT SERVICE="DPA DIRECTIVE MGR" MACHINE="SKUNKNT4" PORT="9070" /</p> - <IN PARAMETERS> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="OWNERID"</p> PARAM DATA TYPE="STRING" PARAM NAME="OWNERID" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="PAGE NAME"</p> PARAM DATA TYPE="STRING" PARAM NAME="PAGENAME" /> IN PARAMETERS> **SOUT PARAMETERS /> INVIOLED PROPERTY OF THE PROP** -VDF DIRECTIVE DEFINITION DIRECTIVE ID="SR1" DIRECTIVE NAME="SAVE RESULTS" THREADING EFFECT="STANDARD" DIRECTIVE TYPE="" DIRECTIVE DESC="SAVES RESULTS TO REPOSITORY" DIRECTIVE_VENDOR="DPA" DIRECTIVE_VERSION="1" DÎRECTIVE CATEGORY="DPA-MISC"> DEPLOYMENT SERVICE="DPA DIRECTIVE MGR" MACHINE="SKUNKNT4" PORT="9070" / **X** - IN PARAMETERS> PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULT SET OWNER" PARAM DATA TYPE="STRING" PARAM NAME="OWNER" /> PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULT SET" PARAM DATA TYPE="STRING" PARAM NAME="RESULTSET" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULT SET METADATA" PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTMETADATA" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULT SET NAME"</p> PARAM DATA TYPE="STRING" PARAM NAME="RESULTNAME" /> </IN PARAMETERS> - <OUT PARAMETERS> <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULTSET ID"</p> PARAM DATA TYPE="STRING" PARAM NAME="RESULTSETID" /> </OUT PARAMETERS> </DF DIRECTIVE DEFINITION>

FIG. 19E

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- <DF DIRECTIVE_DEFINITION DIRECTIVE_ID="CR2" DIRECTIVE_NAME="PUBLISH PAGE" THREADING_EFFECT="STANDARD" DIRECTIVE_TYPE="" DIRECTIVE DESC="PUBLISHES" PAGE & GRANTS SECURITY" DIRECTIVE_VENDOR="DPA" DIRECTIVE_VERSION="1" DIRECTIVE CATEGORY="DPA-MISC"> <DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4" PORT="9070" /</pre> - <IN PARAMETERS> <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="GRANT SECURITY LIST" PARAM_DATA_TYPE="STRING" PARAM_NAME="SECDOC" /> <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="METADATA FOR SECDOC" PARAM DATA TYPE="STRING" PARAM NAME="SECMETA" /> PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="GRANT SECURITY LIST" PARAM_DATA TYPE="STRING" PARAM NAME="SECCOLNAME" /> **PARAMETER PARAM TYPE="IN" PARAM CAPTION="PAGE OWNER" PARAM DATA TYPE="STRING" PARAM NAME="OWNER" /> PARAMETER PARAM TYPE="IN" PARAM CAPTION="PAGE NAME" PARAM_DATA_TYPE="STRING" PARAM_NAME="PAGENAME" /> PARAMETER PARAM TYPE="IN" PARAM CAPTION="PAGE SLICE NAME" PARAM DATA TYPE="STRING" PARAM NAME="PAGESLICENAME" /> PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="PAGE DEFINITION" PARAM DATA TYPE="STRING" PARAM NAME="PAGEDEFN" /> SPARAMETER PARAM TYPE="IN" PARAM CAPTION="IN RESULTS KEY" PARAM DATA TYPE="STRING" PARAM NAME="P1" /> PARAMETER PARAM_TYPE="IN" PARAM CAPTION="IN RESULTS KEY" PARAM DATA TYPE="STRING" PARAM NAME="P2" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="IN RESULTS KEY" PARAM DATA TYPE="STRING" PARAM NAME="P3" /> <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="IN RESULTS KEY" PARAM DATA_TYPE="STRING" PARAM NAME="P4" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="IN RESULTS KEY" PARAM DATA TYPE="STRING" PARAM NAME="P5" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="IN RESULTS KEY" PARAM DATA TYPE="STRING" PARAM NAME="P6" /> </IN PARAMETERS>

FIG. 19F

```
- <OUT PARAMETERS>
 <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="PAGE ID"
PARAM DATA TYPE="STRING" PARAM NAME="PAGEID" />
 <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="PAGE OWNER"
PARAM DATA TYPE="STRING" PARAM NAME="OWNER" />
 <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="PAGE NAME"
PARAM DATA TYPE="STRING" PARAM NAME="PAGENAME" />
 <PARAMETER PARAM_TYPE="OUT" PARAM CAPTION="PAGE SLICE NAME"
PARAM DATA TYPE="STRING" PARAM NAME="PAGESLICENAME" />
 </OUT PARAMETERS>
 </DF DIRECTIVE_DEFINITION>
- <DF_DIRECTIVE_DEFINITION DIRECTIVE_ID="DB3" DIRECTIVE_NAME="DATA DIRECTIVE"
TEREADING EFFECT="STANDARD" DIRECTIVE_DESC="RETRIEVE DATA AND ASSEMBLE
INTO RESULT SET" DIRECTIVE_VENDOR="DPA" DIRECTIVE_VERSION="1"
DIRECTIVE CATEGORY="DPA-MISC">
 DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4" PORT="9070" /
- IN PARAMETERS>
SPARAMETER PARAM TYPE="IN" PARAM_CAPTION="SQL"
PARAM DATA TYPE="PARAMITERIZED SQL STRING" PARAM NAME="SQL" />
 PARAMETER PARAM TYPE="IN" PARAM CAPTION="CONNECTION STRING"
PARAM DATA TYPE="STRING" PARAM NAME="CONNECTION STRING" />
 ☑PARAMETER PARAM TYPE="IN" PARAM CAPTION="DATABASE USER NAME"
PARAM_DATA_TYPE="STRING" PARAM_NAME="USERNAME" />
 PARAMETER PARAM TYPE="IN" PARAM CAPTION="DATABASE PASSWORD"
PARAM DATA TYPE="STRING" PARAM NAME="PWD" />
 <PARAMETER PARAM TYPE="IN" PARAM CAPTION="P1" PARAM_DATA_TYPE="STRING"
PARAM NAME="P1" />
 <PARAMETER PARAM TYPE="IN" PARAM CAPTION="P2" PARAM_DATA TYPE="STRING"
PARAM NAME="P2" />
 <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="P3" PARAM_DATA_TYPE="STRING"
PARAM NAME="P3" />
 <PARAMETER PARAM TYPE="IN" PARAM CAPTION="P4" PARAM DATA TYPE="STRING"
PARAM_NAME="P4" />
 <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="P5" PARAM_DATA_TYPE="STRING"
PARAM NAME="P5" />
 </IN PARAMETERS>
```

FIG. 19G

```
- <OUT PARAMETERS>
 <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="RESULT DATA"</pre>
PARAM DATA TYPE="STRING" PARAM NAME="RESULTSET" />
 <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULT METADATA"
PARAM DATA TYPE="STRING" PARAM NAME="RESULTMETADATA" />
 </OUT PARAMETERS>
 </DF DIRECTIVE DEFINITION>
- <DF DIRECTIVE DEFINITION DIRECTIVE ID="MB2" DIRECTIVE NAME="SMTP EMAIL
DIRECTIVE" THREADING EFFECT="STANDARD" DIRECTIVE TYPE=""
DIRECTIVE DESC="SEND PUBLISHED PAGES" DIRECTIVE VENDOR="DPA"
DIRECTIVE VERSION="1" DIRECTIVE CATEGORY="DPA-MISC">
 <DEPLOYMENT SERVICE="DPA_DIRECTIVE MGR" MACHINE="SKUNKNT4" PORT="9070" /</p>
IN PARAMETERS>
PARAMETER PARAM TYPE="IN" PARAM CAPTION="EMAIL ADDRESSES"
PARAM DATA TYPE="STRING" PARAM NAME="ADDRDOC" />
 SPARAMETER PARAM TYPE="IN" PARAM CAPTION="METADATA FOR ADDRDOC"
PARAM DATA TYPE="STRING" PARAM NAME="ADDRMETA" />
PARAMETER PARAM TYPE="IN" PARAM CAPTION="EMAIL COLUMN NAME"
BARAM DATA TYPE="STRING" PARAM NAME="ADDRCOLNAME" />
PARAMETER PARAM TYPE="IN" PARAM CAPTION="EMAIL COLUMN NAME"
PARAM DATA TYPE="STRING" PARAM NAME="IDCOLNAME" />
PARAM DATA TYPE="STRING" PARAM NAME="SUBJECT" />
PARAMETER PARAM TYPE="IN" PARAM_CAPTION="PAGE OWNER"
PARAM DATA TYPE="STRING" PARAM NAME="OWNER" />
 <PARAMETER PARAM TYPE="IN" PARAM CAPTION="PAGE NAME"
PARAM_DATA_TYPE="STRING" PARAM_NAME="PAGENAME" />
 <PARAMETER PARAM TYPE="IN" PARAM CAPTION="PAGE INSTANCE"</p>
PARAM DATA TYPE="STRING" PARAM NAME="PAGEINST" />
 <PARAMETER PARAM TYPE="IN" PARAM CAPTION="MAIL FORMAT"
PARAM DATA TYPE="STRING" PARAM NAME="FORMAT" />
 <PARAMETER PARAM TYPE="IN" PARAM CAPTION="SEND FROM MAIL ADDRESS"
PARAM DATA TYPE="STRING" PARAM NAME="SENDFROM" />
 </IN PARAMETERS>
```

FIG. 19H

```
- <OUT PARAMETERS>
 <PARAMETER PARAM_TYPE="OUT" PARAM CAPTION="ERROR MESSAGES"</p>
PARAM DATA TYPE="STRING" PARAM NAME="ERROR MSG" />
 </OUT PARAMETERS>
 </DF DIRECTIVE DEFINITION>
- <DF DIRECTIVE DEFINITION DIRECTIVE_ID="ABFILTER" DIRECTIVE_NAME="ADVANCED
FILTER" THREADING EFFECT="STANDARD" DIRECTIVE TYPE=""
DIRECTIVE DESC="FILTER RESULTS" DIRECTIVE VENDOR="DPA"
DIRECTIVE VERSION="1" DIRECTIVE CATEGORY="DPA-MISC">
 <DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4" PORT="9070" /</p>
- <IN PARAMETERS>
►PARAMETER PARAM TYPE="IN" PARAM CAPTION="FILTER EXPRESSION"
PARAM DATA TYPE="STRING" PARAM NAME="FILTER EXP" />
■PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULTS METADATA"
PARAM DATA TYPE="STRING" PARAM_NAME="METADOC" />
*PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULTS"
PARAM DATA TYPE="STRING" PARAM NAME="RESULTSDOC" />
</IN PARAMETERS>
- < OUT PARAMETERS>
SPARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULTS METADATA"
PARAM DATA TYPE="STRING" PARAM NAME="METADOC" />
₹PARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULTS"
PARAM DATA TYPE="STRING" PARAM NAME="RESULTSDOC" />
PARAMETER PARAM TYPE="OUT" PARAM CAPTION="ROW COUNT"
PARAM DATA TYPE="STRING" PARAM NAME="ROWCOUNT" />
 </OUT PARAMETERS>
 </DF DIRECTIVE DEFINITION>
- <DF DIRECTIVE DEFINITION DIRECTIVE ID="TEXTEMAILER" DIRECTIVE NAME="TEXT
EMAILER" THREADING EFFECT="STANDARD" DIRECTIVE TYPE=""
DIRECTIVE DESC="TEXT EMAILER" DIRECTIVE_VENDOR="DPA" DIRECTIVE VERSION="1"
DIRECTIVE CATEGORY="DPA-MISC">
 <DEPLOYMENT SERVICE="DPA DIRECTIVE MGR" MACHINE="SKUNKNT4" PORT="9070" /</p>
```

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Express Mail No.: EL754021250US, Attorney Docket No.: 6115-60713, Page 66 of 103

FIG. 19I

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- <IN PARAMETERS> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="SUBJECT EXPRESSION"</p> PARAM DATA TYPE="STRING" PARAM NAME="SUBJECT EXP" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="MESSAGE EXPRESSION" PARAM DATA TYPE="STRING" PARAM NAME="MESSAGE EXP" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="EMAIL ADDRESSES"</p> PARAM DATA TYPE="STRING" PARAM NAME="EMAIL ADDRESSES" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="SEND FROM ADDRESS" PARAM DATA TYPE="STRING" PARAM NAME="FROM ADDRESS" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULTS METADATA" PARAM DATA TYPE="STRING" PARAM NAME="METADOC" /> PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULTS" PARAM DATA TYPE="STRING" PARAM NAME="RESULTSDOC" /> **IN PARAMETERS>** - **COUT PARAMETERS>** PARAMETER PARAM TYPE="OUT" PARAM CAPTION="ERROR MESSAGES" PARAM DATA TYPE="STRING" PARAM NAME="ERROR" /> **3/OUT PARAMETERS>** _</DF DIRECTIVE DEFINITION> Image: Imag

FIG. 20A

FILTER_VALUE> </FILTER>

```
- < RESULTS DOC>
- < DP QUERY DEF VERSION="1">
 <DPA IDENTIFIERS DATA SET="NW" WH OWNER NAME="RROC" />
 <HINTS />
- < COLUMN DEFS>
 <COLUMN DEF COLUMN SORT ATTRIBUTE="NONE"
COLUMN TEXT="VENDOR NAME" TABLE ALIAS="VENDOR D"
COLUMN NAME="VENDOR NAME" COLUMN ALIAS="VENDOR NAME"
COLUMN SORT ORDER="1" COLUMN POSITION="1"
COLUMN TYPE="GROUP BY" />
 <COLUMN DEF COLUMN SORT ATTRIBUTE="NONE"
COLUMN TEXT="PERIOD KEY" TABLE ALIAS="AP INV DETAIL F"
COLUMN NAME="PERIOD KEY" COLUMN ALIAS="PERIOD KEY"
COLUMN SORT ORDER="2" COLUMN POSITION="2"
COLUMN TYPE="GROUP BY" />
 <COLUMN DEF COLUMN SORT ATTRIBUTE="DESC"
COLUMN TEXT="SUM(AP INV DETAIL F.INVOICE LINE AMOUNT)"
TABLE ALIAS="AP INV DETAIL F"
COLUMN NAME="INVOICE LINE AMOUNT"
COLUMN ALIAS="SUM INVOICE LINE AMOUNT"
COLUMN SORT ORDER="3" COLUMN POSITION="3"
COLUMN TYPE="AGGREGATE" />
 </COLUMN DEFS>
- <TABLE DEFS>
 <TABLE DEF TABLE ALIAS="AP INV DETAIL F"
TABLE NAME="AP INV DETAIL F" />
 <TABLE DEF TABLE ALIAS="VENDOR D" TABLE NAME="VENDOR D" /
 </TABLE DEFS>
- <DETAIL FILTERS>
- <FILTER FILTER TYPE="VALUE" COLUMN TEXT="VENDOR TYPE"
TABLE ALIAS="VENDOR D" FILTER PREC OPER="AND"
FILTER OPERATOR="=">
 <FILTER VALUE VALUE DATA TYPE="STRING">EMPLOYEE
```

FIG. 20B

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- <FILTER FILTER_TYPE="VALUE" COLUMN_TEXT="COMPANY_KEY"
TABLE_ALIAS="AP_INV_DETAIL_F" FILTER_PREC_OPER="AND"
FILTER OPERATOR="=">
 <FILTER_VALUE VALUE_DATA_TYPE="STRING">01</FILTER VALUE>
 </FILTER>
 </DETAIL FILTERS>
- <AGGREGATE FILTERS>
- <FILTER FILTER TYPE="VALUE"
COLUMN_TEXT="SUM(INVOICE_LINE_AMOUNT)"
TABLE_ALIAS="AP_INV_DETAIL_F" FILTER_PREC_OPER="AND"
FILTER OPERATOR=">">
 <FILTER_VALUE VALUE_DATA_TYPE="NUMBER">0</FILTER_VALUE>
 </FILTER>
 </AGGREGATE FILTERS>
 </DP_QUERY DEF>
 <DPA_QUERY_SERVER_INFO SERVICE="DPA_QUERY_SERVER"</pre>
MACHINE="EXH 2K" PORT="8069"
WAREHOUSE_SERVER="HD.DPAPPLICATIONS.COM"
WAREHOUSE DBNAME="DEMO30"
WAREHOUSE OWNER="RROC">FOODADDY</
DPA QUERY SERVER INFO>
- <DP DS METADATA>
 <DP_COLUMN COLUMN_NAME="VENDOR_NAME"</pre>
COLUMN_DATA_TYPE="VARCHAR2" COLUMN_DS_ALIAS="C1"
COLUMN_TYPE="GROUP_BY" COLUMN_SORT_ATTRIBUTE="NONE"
COLUMN SOURCE ALIAS="VENDOR NAME"
COLUMN_LABEL="VENDOR NAME" COLUMN_DESC=""
COLUMN IS_CURRENCY="N" />
 <DP_COLUMN COLUMN_NAME="PERIOD_KEY"</pre>
COLUMN_DATA_TYPE="VARCHAR2" COLUMN_DS_ALIAS="C2"
COLUMN_TYPE="GROUP_BY" COLUMN SORT ATTRIBUTE="NONE"
COLUMN_SOURCE_ALIAS="PERIOD_KEY" COLUMN_LABEL="PERIOD
KEY" COLUMN_DESC="" COLUMN_IS_CURRENCY="N" />
 <DP_COLUMN COLUMN_NAME="SUM_INVOICE LINE AMOUNT"</pre>
COLUMN_DATA_TYPE="NUMBER" COLUMN_DS_ALIAS="C3"
COLUMN_TYPE="AGGREGATE" COLUMN_SORT_ATTRIBUTE="DESC"
COLUMN_SOURCE_ALIAS="SUM_INVOICE_LINE_AMOUNT"
COLUMN_LABEL="INVOICE LINE AMOUNT" COLUMN_DESC=""
COLUMN IS CURRENCY="Y" />
```

FIG. 20C

</DP DS METADATA>

- <DP_DS>

- <R>

<C1>JAMIE FROST</C1>

<C2>DEC-97</C2>

<C3>28159</C3>

</R>

- <R>

<C1>JAMIE FROST</C1>

<C2>JAN-98</C2>

<C3>15114.76</C3>

</R>

- <R>

<C1>JAMIE FROST</C1>

<C2>FEB-98</C2>

<C3>4417.86</C3>

</R>

- <R>

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<C1>KERRY JONES</C1>

<C2>APR-98</C2>

<C3>3439.10</C3>

</R>

- <R>

<C1>KERRY JONES</C1>

<C2>DEC-97</C2>

<C3>3263</C3>

</R>

- <R>

<C1>JAMIE FROST</C1>

<C2>NOV-97</C2>

<C3>2907.85</C3>

</R>

- <R>

<C1>KERRY JONES</C1>

<C2>FEB-98</C2>

<C3>2799.31</C3>

</R>

FIG. 20D

- <R>

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<C1>KERRY JONES</C1> <C2>MAY-98</C2> <C3>2698.64</C3> </R> - <R> <C1>JAMIE FROST</C1> <C2>APR-98</C2> <C3>2657.20</C3> </R> - <R> <C1>JAMIE FROST</C1> <C2>MAY-98</C2> <C3>2549.68</C3> </R> - <R> <C1>KERRY JONES</C1> <C2>MAR-98</C2> <C3>2511.98</C3> </R>- <R> <C1>JAMIE FROST</C1> <C2>MAR-98</C2> <C3>2459.87</C3> </R>- <R> <C1>JAMIE FROST</C1> <C2>JUN-98</C2> <C3>2219.90</C3> </R>- <R> <C1>KERRY JONES</C1> <C2>JUN-98</C2>

<C3>2182.29</C3>

<C2>JAN-98</C2><C3>1516</C3>

<C1>KERRY JONES</C1>

</R>

</R>

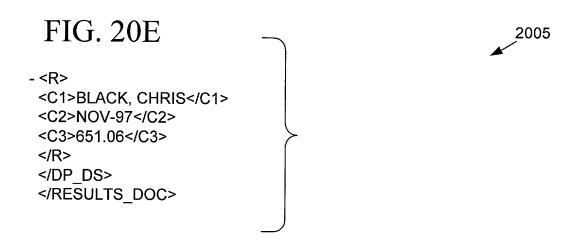


FIG. 21A

2101

- <DF_WORKFLOW VERSION="1">
 <DF_WORKFLOW_HEADER DF_EDITOR_MAX_ID="172" FLOW_NAME="QTY ANALYSIS"
FLOW_DESCRIPTION="QTY ANALYSIS FLOW" FLOW_STATUS="FLOW STATUS"
FLOW_NOTES="" FLOW_AUTHOR="FLOW AUTHOR" />
 - <DF_WORKFLOW_PARAMETERS>
 - <PARAMETER NODE_ID="13" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="CONNECT STRING" PARAM_NAME="CONNECT_STRING"
PARAM_TYPE="OUT">

<PARAM SOURCE

PARAM_TYPE="VALUE">JDBC:ORACLE:THIN:@172.16.1.34:1521:DEMO30</P>

</PARAMETER>

- <PARAMETER NODE_ID="14" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="DATABASE USER NAME" PARAM_NAME="USER_NAME"
PARAM_TYPE="OUT">

PARAM_SOURCE PARAM_TYPE="VALUE">RROC609</PARAM_SOURCE>
!

PARAMETER NODE_ID="15" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="DATABASE PASSWORD" PARAM_NAME="USER_PWD"
PARAM_TYPE="OUT">

<PARAM_SOURCE PARAM_TYPE="VALUE">DPA</PARAM_SOURCE>

PARAMETER NODE ID="16" PARAM DATA TYPE="STRING"

PARAM_CAPTION="OWNERNAME" PARAM_NAME="OWNERNAME" PARAM_TYPE="OUT">
PARAM_SOURCE PARAM_TYPE="VALUE">QTY_ANALYSIS</PARAM_SOURCE>
\$\times \text{PARAMETER>}

- <PARAMETER NODE_ID="17" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="CURRENT PERIOD" PARAM_NAME="CURRPERIOD"
PARAM_TYPE="OUT">

<PARAM_SOURCE PARAM_TYPE="VALUE">(1997-09) SEP-97</PARAM_SOURCE> </PARAMETER>

</DF_WORKFLOW_PARAMETERS>

- <DF_WORKFLOW_ACTIVITIES>

- <ACTIVITY NODE_ID="11">

<activity header activity notes="activity notes"

ACTIVITY DESCRIPTION="ACTIVITY DESCRIPTION" />

<a color="bear

DIRECTIVE_NAME="SCHEDULER" THREADING_EFFECT="SPLIT" DIRECTIVE_ID="SB1" DIRECTIVE VERSION="1" DIRECTIVE DESC="SCHEDULE DIRECTIVE" />

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Express Mail No.: EL754021250US, Attorney Docket No.: 6115-60713, Page 73 of 103

FIG. 21B

2102

- <ACTIVITY IN PARAMETERS>
- <PARAMETER NODE ID="12" PARAM DATA TYPE="STRING"

PARAM_CAPTION="FREQUENCY" PARAM_NAME="FREQUENCY" PARAM_TYPE="IN">

- <PARAM_SOURCE PARAM_TYPE="VALUE">0</PARAM_SOURCE>
- </PARAMETER>
- </ACTIVITY IN PARAMETERS>
- <ACTIVITY OUT PARAMETERS />
- </ACTIVITY>
- <ACTIVITY NODE ID="18">
- <ACTIVITY_HEADER ACTIVITY NOTES="ACTIVITY NOTES"</pre>

ACTIVITY_DESCRIPTION="ACTIVITY DESCRIPTION" />

- <ACTIVITY_IMPLEMENTATION DIRECTIVE_VENDOR="DPA" DIRECTIVE_NAME="CLEAR STORED RESULTS" THREADING_EFFECT="STANDARD" DIRECTIVE_ID="CRB1" DIRECTIVE_TYPE="" DIRECTIVE_VERSION="1" DIRECTIVE_DESC="REMOVE PREVIOUS RESULT SETS FROM REPOSITORY" />
- ACTIVITY IN PARAMETERS>
- PARAMETER NODE_ID="19" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="OWNER ID" PARAM NAME="OWNERID" PARAM TYPE="IN">
- PARAM_SOURCE PARAM_TYPE="ID">16</PARAM_SOURCE>
- </PARAMETER>
- PARAMETER NODE_ID="20" PARAM DATA TYPE="STRING"

PARAM_CAPTION="RESULTNAME" PARAM_NAME="RESULTNAME" PARAM_TYPE="IN">
PARAM_SOURCE PARAM_TYPE="VALUE">*</PARAM_SOURCE>

- **S/PARAMETER>**
- **SACTIVITY IN PARAMETERS>**
- **ACTIVITY OUT PARAMETERS />**
- ₹/ACTIVITY>
- <ACTIVITY NODE ID="21">
- <ACTIVITY_HEADER ACTIVITY NOTES"</pre>

ACTIVITY DESCRIPTION="ACTIVITY DESCRIPTION" />

<ACTIVITY_IMPLEMENTATION DIRECTIVE_VENDOR="DPA" DIRECTIVE_NAME="CLEAR PUBLISHED PAGES" THREADING_EFFECT="STANDARD" DIRECTIVE_ID="CRC1" DIRECTIVE_TYPE="" DIRECTIVE_VERSION="1" DIRECTIVE_DESC="REMOVE PREVIOUS PUBLISHED PAGES FROM REPOSITORY" />

FIG. 21C

</PARAMETER>

2103

- <ACTIVITY IN PARAMETERS> - <PARAMETER NODE_ID="22" PARAM_DATA_TYPE="STRING" PARAM CAPTION="OWNERID" PARAM NAME="OWNERID" PARAM TYPE="IN"> <PARAM SOURCE PARAM TYPE="ID">16</PARAM SOURCE> </PARAMETER> - <PARAMETER NODE_ID="23" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="PAGE NAME" PARAM NAME="PAGENAME" PARAM TYPE="IN"> <PARAM_SOURCE PARAM TYPE="VALUE">*</PARAM SOURCE> </PARAMETER> </ACTIVITY IN PARAMETERS> <ACTIVITY OUT PARAMETERS /> </ACTIVITY> - <ACTIVITY NODE ID="26"> <ACTIVITY HEADER ACTIVITY NOTES="ACTIVITY NOTES"</p> ACTIVITY_DESCRIPTION="DETAIL QUERY" /> SACTIVITY_IMPLEMENTATION DIRECTIVE_VENDOR="DPA" DIRECTIVE_NAME="DATA DIRECTIVE" THREADING EFFECT="STANDARD" DIRECTIVE ID="DB3" DIRECTIVE VERSION="1" DIRECTIVE_DESC="RETRIEVE DATA AND ASSEMBLE INTO RESULT SET" /> -<ACTIVITY IN PARAMETERS> PARAM CAPTION="SQL" PARAM NAME="SQL" PARAM TYPE="IN"> SPARAM_SOURCE PARAM_TYPE="VALUE">SELECT NW COMPONENT ITEM D.COMPONENT ITEM DESC GOMPONENT ITEM DESC, SUM(NW DISC SHORTAGE F.QUANTITY ISSUED) QUANTITY ISSUED, SUM(NW DISC SHORTAGE F.QUANTITY ON HAND) QUANTITY_ON_HAND, SUM(NW_DISC SHORTAGE F.QUANTITY SHORT) QUANTITY SHORT, SUM(NW DISC SHORTAGE F. REQUIRED QUANTITY) REQUIRED QUANTITY FROM NW_COMPONENT_ITEM D 0 NW_COMPONENT ITEM D,NW DISC SHORTAGE F 0 NW DISC SHORTAGE F,NW ORG PERIOD D 0 NW ORG PERIOD_D,NW WIP_ENTITY D 0 NW WIP ENTITY D WHERE NW DISC SHORTAGE F.COMPONENT ITEM KEY = NW COMPONENT ITEM D.COMPONENT ITEM KEY AND NW_DISC_SHORTAGE_F.ORG_PERIOD_KEY = NW_ORG_PERIOD_D.ORG_PERIOD_KEY AND NW DISC_SHORTAGE_F.WIP_ENTITY_KEY = NW_WIP_ENTITY_D.WIP_ENTITY_KEY AND NW ORG PERIOD D.ORG PERIOD = '#P1#' GROUP BY NW COMPONENT ITEM D.COMPONENT ITEM DESCHAVING SUM(NW_DISC_SHORTAGE_F.REQUIRED_QUANTITY) > 0 ORDER BY

REQUIRED QUANTITY DESC, COMPONENT ITEM DESC, REQUIRED QUANTITY. QUANTITY ISSUED, QUANTITY SHORT, QUANTITY ON HAND</PARAM SOURCE>

FIG. 21D

- <PARAMETER NODE_ID="28" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="CONNECTION STRING" PARAM_NAME="CONNECTION_STRING" PARAM_TYPE="IN">
- <PARAM SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
- </PARAMETER>
- <PARAMETER NODE_ID="29" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="DATABASE USER NAME" PARAM_NAME="USERNAME"
 PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="ID">14</PARAM_SOURCE>
 - </PARAMETER>
- <PARAMETER NODE_ID="30" PARAM_DATA_TYPE="STRING"</p>
- PARAM_CAPTION="DATABASE PASSWORD" PARAM_NAME="PWD" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">15</PARAM_SOURCE>
 _</PARAMETER>
- PARAMETER NODE_ID="31" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P1" PARAM NAME="P1" PARAM TYPE="IN">
- SPARAM SOURCE PARAM_TYPE="ID">17</PARAM_SOURCE>
- </PARAMETER>
- PARAMETER NODE_ID="32" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P2" PARAM_NAME="P2" PARAM_TYPE="IN">
- PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
- !</PARAMETER>
- -- PARAMETER NODE_ID="33" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P3" PARAM_NAME="P3" PARAM_TYPE="IN">
- FPARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
- /PARAMETER>
- → PARAMETER NODE_ID="34" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P4" PARAM NAME="P4" PARAM TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 - </PARAMETER>
- <PARAMETER NODE_ID="35" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P5"
 PARAM NAME="P5" PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 - </PARAMETER>
 - </ACTIVITY_IN_PARAMETERS>

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FIG. 21E

</PARAMETER>

2105

- <ACTIVITY OUT PARAMETERS> - <PARAMETER NODE_ID="36" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT DATA" PARAM_NAME="RESULTSET" PARAM_TYPE="OUT"> <PARAM SOURCE /> </PARAMETER> - <PARAMETER NODE_ID="37" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT METADATA" PARAM_NAME="RESULTMETADATA" PARAM_TYPE="OUT"> <PARAM SOURCE /> </PARAMETER> </ACTIVITY OUT PARAMETERS> </ACTIVITY> - <ACTIVITY NODE ID="39"> <activity header activity_notes="activity notes" ACTIVITY DESCRIPTION="TREND QUERY" /> ACTIVITY_IMPLEMENTATION DIRECTIVE_VENDOR="DPA" DIRECTIVE_NAME="DATA DIRECTIVE" THREADING_EFFECT="STANDARD" DIRECTIVE_ID="DB3" DRECTIVE_VERSION="1" DIRECTIVE_DESC="RETRIEVE DATA AND ASSEMBLE INTO RESULT SET" /> *ACTIVITY IN PARAMETERS> ➡PARAMETER NODE_ID="40" PARAM_DATA_TYPE="PARAMITERIZED SQL STRING" PARAM_CAPTION="SQL" PARAM_NAME="SQL" PARAM_TYPE="IN"> ≤PARAM_SOURCE PARAM_TYPE="VALUE">SELECT NW_ORG_PERIOD_D.ORG_PERIOD ERIOD_NAME,SUM(NW_DISC_SHORTAGE_F.QUANTITY_ISSUED) QUANTITY ISSUED, SUM (NW_DISC_SHORTAGE_F.QUANTITY_ON_HAND) QUANTITY_ON_HAND,SUM(NW_DISC_SHORTAGE_F.QUANTITY_SHORT) QUANTITY_SHORT,SUM(NW_DISC_SHORTAGE_F.REQUIRED_QUANTITY) REQUIRED_QUANTITY FROM NW_DISC_SHORTAGE_F_0 NW_DISC_SHORTAGE_F, NW ORG PERIOD D 0 NW ORG PERIOD D WHERE NW_DISC_SHORTAGE_F.ORG_PERIOD_KEY = NW_ORG_PERIOD_D.ORG_PERIOD_KEY GROUP BY NW_ORG_PERIOD_D.ORG_PERIOD ORDER BY PERIOD_NAME DESC</ PARAM SOURCE> </PARAMETER> - <PARAMETER NODE_ID="41" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="CONNECTION STRING" PARAM_NAME="CONNECTION_STRING" PARAM TYPE="IN"> <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>

FIG. 21F

</ACTIVITY_OUT_PARAMETERS>

</ACTIVITY>

2106

- <PARAMETER NODE_ID="42" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="DATABASE USER NAME" PARAM_NAME="USERNAME" PARAM TYPE="IN"> <PARAM_SOURCE PARAM_TYPE="ID">14</PARAM_SOURCE> </PARAMETER> - <PARAMETER NODE_ID="43" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="DATABASE PASSWORD" PARAM_NAME="PWD" PARAM_TYPE="IN"> <PARAM SOURCE PARAM_TYPE="ID">15</PARAM_SOURCE> </PARAMETER> - <PARAMETER NODE_ID="44" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P1" PARAM NAME="P1" PARAM TYPE="IN"> <PARAM_SOURCE PARAM_TYPE="ID">17</PARAM_SOURCE> ∠/PARAMETER> PARAM NAME="P2" PARAM TYPE="IN"> SPARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE> /PARAMETER> PARAMETER NODE_ID="46" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P3" PARAM_NAME="P3" PARAM_TYPE="IN"> <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE> _</PARAMETER> PARAMETER NODE_ID="47" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P4" PARAM NAME="P4" PARAM TYPE="IN"> PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE> /PARAMETER> PARAMETER NODE_ID="48" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P5" PARAM NAME="P5" PARAM TYPE="IN"> <PARAM SOURCE PARAM TYPE="ID">13</PARAM_SOURCE> </PARAMETER> </ACTIVITY IN PARAMETERS> - <ACTIVITY OUT PARAMETERS> - <PARAMETER NODE_ID="49" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT DATA" PARAM_NAME="RESULTSET" PARAM_TYPE="OUT"> <PARAM SOURCE /> </PARAMETER> - <PARAMETER NODE_ID="50" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT METADATA" PARAM_NAME="RESULTMETADATA" PARAM_TYPE="OUT"> <PARAM SOURCE /> </PARAMETER>

FIG. 21G

- <ACTIVITY NODE_ID="52">

2107

<activity_header activity_notes="activity notes" ACTIVITY DESCRIPTION="SUMMARY QUERY" /> <activity implementation directive_vendor="dpa" directive_name="data" DIRECTIVE" THREADING_EFFECT="STANDARD" DIRECTIVE_ID="DB3" DIRECTIVE_VERSION="1" DIRECTIVE_DESC="RETRIEVE DATA AND ASSEMBLE INTO RESULT SET" /> - <ACTIVITY IN PARAMETERS> - <PARAMETER NODE_ID="53" PARAM_DATA_TYPE="PARAMITERIZED SQL STRING" PARAM_CAPTION="SQL" PARAM_NAME="SQL" PARAM_TYPE="IN"> <PARAM_SOURCE PARAM_TYPE="VALUE">SELECT NW_COMPONENT_ITEM_D.COMPONENT_ITEM_DESC COMPONENT_ITEM_DESC,SUM(NW_DISC_SHORTAGE_F.QUANTITY_ISSUED) QUANTITY_ISSUED,SUM(NW_DISC_SHORTAGE_F.QUANTITY_ON_HAND) QUANTITY_ON_HAND,SUM(NW_DISC_SHORTAGE_F.QUANTITY_SHORT) QUANTITY_SHORT,SUM(NW_DISC_SHORTAGE_F.REQUIRED_QUANTITY) REQUIRED_QUANTITY FROM NW_COMPONENT_ITEM_D_0 NW_COMPONENT_ITEM_D,NW_DISC_SHORTAGE_F_0 NW_DISC_SHORTAGE_F,NW_ORG_PERIOD_D_0 NW_ORG_PERIOD_D,NW_WIP_ENTITY_D_0 NW_WIP_ENTITY_D WHERE NW DISC SHORTAGE F.COMPONENT_ITEM_KEY = NW_COMPONENT_ITEM_D.COMPONENT_ITEM_KEY AND NW DISC_SHORTAGE_F.ORG_PERIOD_KEY = NW_ORG_PERIOD_D.ORG_PERIOD_KEY AND NW_DISC_SHORTAGE_F.WIP_ENTITY_KEY = NW_WIP_ENTITY_D.WIP_ENTITY_KEY AND NW_ORG_PERIOD_D.ORG_PERIOD = '#P1#' GROUP BY NW COMPONENT ITEM D.COMPONENT ITEM DESC HAVING SUM(NW_DISC_SHORTAGE_F.REQUIRED_QUANTITY) > 0 ORDER BY REQUIRED_QUANTITY DESC, COMPONENT_ITEM_DESC, REQUIRED_QUANTITY, QUANTITY_ISSUED, QUANTITY_SHORT, QUANTITY_ON_HAND</PARAM_SOURCE> </PARAMETER> - <PARAMETER NODE_ID="54" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="CONNECTION STRING" PARAM_NAME="CONNECTION_STRING" PARAM TYPE="IN"> <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE> </PARAMETER> - <PARAMETER NODE ID="55" PARAM DATA TYPE="STRING" PARAM CAPTION="DATABASE USER NAME" PARAM_NAME="USERNAME" PARAM TYPE="IN"> <PARAM_SOURCE PARAM_TYPE="ID">14</PARAM_SOURCE> </PARAMETER>

FIG. 21H

2108

- <PARAMETER NODE_ID="56" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="DATABASE PASSWORD" PARAM_NAME="PWD" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">15</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="57" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P1" PARAM_NAME="P1" PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="ID">17</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="58" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P2" PARAM_NAME="P2" PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
- </parameter>
 <PARAMETER NODE_ID="59" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P3"
 PARAM_NAME="P3" PARAM_TYPE="IN">
- PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>

/PARAMETER>

- PARAMETER NODE_ID="60" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P4" PARAM_NAME="P4" PARAM_TYPE="IN">
- PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>

/PARAMETER>

- ---PARAMETER NODE_ID="61" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P5"
 PARAM_NAME="P5" PARAM_TYPE="IN">
 - ZPARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>

PARAMETER>

- **VACTIVITY IN PARAMETERS>**
- SACTIVITY_OUT_PARAMETERS>
- <PARAMETER NODE_ID="62" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT DATA" PARAM_NAME="RESULTSET" PARAM_TYPE="OUT">
 - <PARAM SOURCE />
 - </PARAMETER>
- <PARAMETER NODE_ID="63" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT METADATA" PARAM_NAME="RESULTMETADATA" PARAM_TYPE="OUT">
 - <PARAM SOURCE />
 - </PARAMETER>
 - </ACTIVITY_OUT_PARAMETERS>
 - </ACTIVITY>

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FIG. 21I

2109

- <ACTIVITY NODE ID="65"> <activity_header activity_notes="activity notes" ACTIVITY_DESCRIPTION="ACTIVITY DESCRIPTION" /> <activity_implementation directive_vendor="dpa" THREADING _EFFECT="STANDARD" DIRECTIVE_NAME="SAVE RESULTS" DIRECTIVE_ID="SR1" DIRECTIVE_TYPE="" DIRECTIVE_VERSION="1" DIRECTIVE_DESC="SAVES RESULTS TO REPOSITORY" /> - <ACTIVITY IN PARAMETERS>

- <PARAMETER NODE_ID="66" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT SET OWNER" PARAM_NAME="OWNER" PARAM_TYPE="IN"> <PARAM SOURCE PARAM TYPE="ID">16</PARAM SOURCE>

</PARAMETER>

- <PARAMETER NODE_ID="67" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT SET" PARAM_NAME="RESULTSET" PARAM_TYPE="IN">

ZPARAM SOURCE PARAM TYPE="ID">36</PARAM_SOURCE>

⟨PARAMETER>

- PARAMETER NODE_ID="68" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT SET METADATA" PARAM_NAME="RESULTMETADATA" PARAM_TYPE="IN">

PARAM_SOURCE PARAM_TYPE="ID">37</PARAM_SOURCE>

</PARAMETER>

- PARAMETER NODE_ID="69" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT SET NAME" PARAM_NAME="RESULTNAME" PARAM_TYPE="IN">

PARAM_SOURCE PARAM_TYPE="VALUE">DETAIL</PARAM_SOURCE>

</PARAMETER>

ZACTIVITY IN PARAMETERS>

- ACTIVITY OUT PARAMETERS>

-☑PARAMETER NODE_ID="70" PARAM_DATA_TYPE="STRING"

PARAM_CAPTION="RESULTSET ID" PARAM_NAME="RESULTSETID" PARAM_TYPE="OUT"> <PARAM SOURCE />

</PARAMETER>

</ACTIVITY_OUT_PARAMETERS>

</ACTIVITY>

- <ACTIVITY NODE_ID="72">

<activity_header activity_notes="activity notes"

ACTIVITY DESCRIPTION="ACTIVITY DESCRIPTION" />

<activity_implementation directive_vendor="dpa"

THREADING_EFFECT="STANDARD" DIRECTIVE_NAME="SAVE RESULTS"

DIRECTIVE_ID="SR1" DIRECTIVE_TYPE="" DIRECTIVE_VERSION="1"

DIRECTIVE_DESC="SAVES RESULTS TO REPOSITORY" />

FIG. 21J

- <ACTIVITY IN PARAMETERS>
- <PARAMETER NODE_ID="73" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT SET OWNER" PARAM_NAME="OWNER" PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="ID">16</PARAM_SOURCE>
 - </PARAMETER>
- <PARAMETER NODE_ID="74" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT SET" PARAM_NAME="RESULTSET" PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="ID">49</PARAM_SOURCE>
 - </PARAMETER>
- <PARAMETER NODE_ID="75" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT SET METADATA" PARAM_NAME="RESULTMETADATA" PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="ID">50</PARAM_SOURCE>
 - </PARAMETER>
- PARAMETER NODE_ID="76" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT SET NAME" PARAM_NAME="RESULTNAME" PARAM_TYPE="IN">
- PARAM_SOURCE PARAM_TYPE="VALUE">TREND</PARAM_SOURCE>
- </PARAMETER>
- </ACTIVITY IN PARAMETERS>
- -- ACTIVITY OUT PARAMETERS>
- -- PARAMETER NODE_ID="77" PARAM_DATA_TYPE="STRING"
- PARAM_CAPTION="RESULTSET ID" PARAM_NAME="RESULTSETID" PARAM_TYPE="OUT">
 PARAM_SOURCE />
- PARAMETER>
- </ACTIVITY_OUT_PARAMETERS>
- /ACTIVITY>
- --<activity Node_ID="79">
- "<ACTIVITY_HEADER ACTIVITY_NOTES="ACTIVITY NOTES"</pre>
- ACTIVITY DESCRIPTION="ACTIVITY DESCRIPTION" />
 - <activity implementation directive_vendor="dpa"
- THREADING_EFFECT="STANDARD" DIRECTIVE_NAME="SAVE RESULTS"
- DIRECTIVE_ID="SR1" DIRECTIVE_TYPE="" DIRECTIVE_VERSION="1"
- DIRECTIVE_DESC="SAVES RESULTS TO REPOSITORY" />
- <ACTIVITY_IN_PARAMETERS>
- <PARAMETER NODE_ID="80" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT SET OWNER" PARAM_NAME="OWNER" PARAM_TYPE="IN">
- <PARAM_SOURCE PARAM_TYPE="ID">16</PARAM_SOURCE>
- </PARAMETER>

FIG. 21K

</PARAMETER>

- <PARAMETER NODE_ID="81" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT SET" PARAM NAME="RESULTSET" PARAM TYPE="IN"> <PARAM_SOURCE PARAM_TYPE="ID">62</PARAM_SOURCE> </PARAMETER> - <PARAMETER NODE_ID="82" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT SET METADATA" PARAM_NAME="RESULTMETADATA" PARAM_TYPE="IN"> <PARAM_SOURCE PARAM_TYPE="ID">63</PARAM_SOURCE> </PARAMETER> - <PARAMETER NODE_ID="83" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT SET NAME" PARAM_NAME="RESULTNAME" PARAM TYPE="IN"> <PARAM SOURCE PARAM TYPE="VALUE">SUMMARY</PARAM SOURCE> </PARAMETER> **ACTIVITY IN PARAMETERS>** - ACTIVITY OUT PARAMETERS> - PARAMETER NODE ID="84" PARAM DATA TYPE="STRING" PARAM CAPTION="RESULTSET ID" PARAM_NAME="RESULTSETID" PARAM_TYPE="OUT"> <PARAM SOURCE /> </PARAMETER> **ACTIVITY_OUT_PARAMETERS>** </ACTIVITY> - SACTIVITY NODE ID="87"> **EACTIVITY_HEADER ACTIVITY_NOTES="ACTIVITY NOTES"** ACTIVITY DESCRIPTION="ACTIVITY DESCRIPTION" /> SACTIVITY_IMPLEMENTATION DIRECTIVE_VENDOR="DPA" THREADING_EFFECT="STANDARD" DIRECTIVE_NAME="PUBLISH PAGE" DIRECTIVE_ID="CR2" DIRECTIVE_TYPE="" DIRECTIVE_VERSION="1" DIRECTIVE_DESC="PUBLISHES PAGE & GRANTS SECURITY" /> - <ACTIVITY IN PARAMETERS> - <PARAMETER NODE ID="88" PARAM_DATA_TYPE="STRING" PARAM CAPTION="GRANT SECURITY LIST" PARAM NAME="SECDOC" PARAM TYPE="IN"> <PARAM_SOURCE PARAM_TYPE="ID">162</PARAM_SOURCE> </PARAMETER> - <PARAMETER NODE ID="89" PARAM DATA TYPE="STRING" PARAM_CAPTION="METADATA FOR SECDOC" PARAM_NAME="SECMETA" PARAM TYPE="IN"> <PARAM_SOURCE PARAM_TYPE="ID">163</PARAM_SOURCE>
- <PARAMETER NODE_ID="90" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="GRANT SECURITY LIST" PARAM_NAME="SECCOLNAME" PARAM_TYPE="IN"> <PARAM_SOURCE PARAM_TYPE="VALUE">USERNAME</PARAM_SOURCE> </PARAMETER>

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FIG. 21L

- <PARAMETER NODE_ID="91" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="PAGE OWNER" PARAM_NAME="OWNER" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">16</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="92" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="PAGE NAME" PARAM_NAME="PAGENAME" PARAM_TYPE="IN"> <PARAM_SOURCE PARAM_TYPE="VALUE">STARTPAGE</PARAM_SOURCE> </PARAMETER>
- <PARAMETER NODE_ID="93" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="PAGE SLICE NAME" PARAM_NAME="PAGESLICENAME" PARAM_TYPE="IN"> <PARAM_SOURCE PARAM_TYPE="VALUE">FIRST</PARAM_SOURCE> </PARAMETER>
- </PARAMETER> - <PARAMETER NODE_ID="94" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="PAGE DEFINITION" PARAM_NAME="PAGEDEFN" PARAM_TYPE="IN"> PARAM SOURCE PARAM TYPE="VALUE"><DP_PAGE DEF><LAYER LAYER_TYPE="HORIZONTAL" LAYER_BORDER="0" LAYER_PADDING="3" LAYER_HEIGHT="100%" LAYER_WIDTH="100%"><LAYER LAYER_TYPE="VERTICAL" LAYER PADDING="3" LAYER_BORDER="0" LAYER_HEIGHT="225" LAYER_WIDTH="100%"><LAYER_LAYER_TYPE="WIDGET" LAYER_HEIGHT="100%" LAYER_WIDTH="50%"><WIDGET WIDGET_ID="DP_PIE_CHART"><PARAMETERS><PARAM PARAM_NAME="TITLE">MY PIE</PARAM><PARAM PARAM_NAME="DSID">#P3#</ P-ARAM><PARAM PARAM_NAME="VALUECOL">REQUIRED_QUANTITY</PARAM><PARAM PARAM_NAME="LABELCOL">COMPONENT_ITEM_DESC</PARAM><PARAM PARAM_NAME="FILTERTYPE">TOP</PARAM><PARAM PARAM_NAME="FILTERVAL">10</ PARAM></PARAMETERS></WIDGET></LAYER><LAYER LAYER_TYPE="WIDGET" LAYER HEIGHT="100%" LAYER WIDTH="50%"><WIDGET WIDGET_ID="DP_BAR_CHART2"><PARAMETERS><PARAM PARAM_NAME="TITLE">MY CHART TITLE</PARAM><PARAM PARAM_NAME="DSID">#P2#</PARAM><PARAM PARAM_NAME="MEASURECOLS">QUANTITY_ON_HAND|QUANTITY_ISSUED|QUANTITY_SH ORT|REQUIRED_QUANTITY</PARAM><PARAM PARAM_NAME="XAXISLABELS">ON HANDIISSUEDISHORTIREQUIRED</PARAM><PARAM PARAM_NAME="SERIESCOL">PERIOD_NAME</PARAM></PARAMETERS></WIDGET></ LAYER></LAYER><LAYER LAYER_TYPE="HORIZONTAL" LAYER_BORDER="0" LAYER_PADDING="3" LAYER_HEIGHT="80%" LAYER_WIDTH="100%"><LAYER LAYER_TYPE="WIDGET" LAYER_HEIGHT="100%" LAYER_WIDTH="100%"><WIDGET WIDGET_ID="DP_REPORT_VIEWER"><PARAMETERS><PARAM PARAM_NAME="TITLE">MY TITLE</PARAM> <PARAM PARAM_NAME="DSID">#P1#</PARAM></PARAMETERS></ WIDGET></LAYER></LAYER></DP_PAGE_DEF></PARAM_SOURCE> </PARAMETER>
- <PARAMETER NODE_ID="95" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="IN RESULTS KEY" PARAM_NAME="P1" PARAM_TYPE="IN"> <PARAM_SOURCE PARAM_TYPE="ID">70</PARAM_SOURCE> </PARAMETER>

FIG. 21M

- <PARAMETER NODE_ID="96" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="IN RESULTS KEY" PARAM_NAME="P2" PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="ID">77</PARAM_SOURCE>
 - </PARAMETER>
- <PARAMETER NODE_ID="97" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="IN RESULTS KEY" PARAM_NAME="P3" PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="ID">84</PARAM_SOURCE>
 - </PARAMETER>
- <PARAMETER NODE_ID="98" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="IN RESULTS KEY" PARAM_NAME="P4" PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="ID">70</PARAM_SOURCE>
 - </PARAMETER>
- <PARAMETER NODE_ID="99" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="IN RESULTS KEY" PARAM_NAME="P5" PARAM_TYPE="IN">
- PARAM_SOURCE PARAM_TYPE="ID">70</PARAM_SOURCE>
- /PARAMETER>
- PARAMETER NODE_ID="100" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="IN RESULTS KEY" PARAM_NAME="P6" PARAM_TYPE="IN">
- PARAM SOURCE PARAM_TYPE="ID">70</PARAM_SOURCE>
- </PARAMETER>
- -SACTIVITY OUT PARAMETERS>
- PARAMETER NODE_ID="101" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="PAGE ID" PARAM NAME="PAGEID" PARAM_TYPE="OUT">
- SPARAM SOURCE />
- **S/PARAMETER>**
- ----PARAMETER NODE_ID="102" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="PAGE OWNER" PARAM_NAME="OWNER" PARAM_TYPE="OUT">
 - <PARAM SOURCE />
 - </PARAMETER>
- <PARAMETER NODE_ID="103" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="PAGE NAME" PARAM_NAME="PAGENAME" PARAM_TYPE="OUT">
 - <PARAM SOURCE />
 - </PARAMETER>
- <PARAMETER NODE_ID="104" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="PAGE SLICE NAME" PARAM_NAME="PAGESLICENAME" PARAM_TYPE="OUT">
 - <PARAM SOURCE />
 - </PARAMETER>
 - </ACTIVITY_OUT_PARAMETERS>
 - </ACTIVITY>

FIG. 21N

```
- <ACTIVITY NODE ID="108">
<ACTIVITY HEADER ACTIVITY NOTES="ACTIVITY NOTES"
ACTIVITY DESCRIPTION="OUTOF BOUNDS QTY" />
 <activity implementation directive vendor="dpa"
THREADING_EFFECT="STANDARD" DIRECTIVE_NAME="ADVANCED FILTER"
DIRECTIVE ID="ABFILTER" DIRECTIVE_TYPE="" DIRECTIVE_VERSION="1"
DIRECTIVE DESC="FILTER RESULTS" />
- <ACTIVITY IN PARAMETERS>
- <PARAMETER NODE_ID="109" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="FILTER
EXPRESSION" PARAM_NAME="FILTER_EXP" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="VALUE">#REQUIRED_QUANTITY# > 200</
PARAM SOURCE>
 </PARAMETER>
- ≤PARAMETER NODE_ID="110" PARAM_DATA_TYPE="STRING"
PÄRAM_CAPTION="RESULTS METADATA" PARAM_NAME="METADOC" PARAM_TYPE="IN">
 PARAM SOURCE PARAM TYPE="ID">63</PARAM SOURCE>
 ✓PARAMETER>
- PARAMETER NODE ID="111" PARAM DATA_TYPE="STRING"
PARAM_CAPTION="RESULTS" PARAM_NAME="RESULTSDOC" PARAM_TYPE="IN">
 ∠PARAM_SOURCE PARAM_TYPE="ID">62</PARAM_SOURCE>
 </PARAMETER>
 ZACTIVITY_IN_PARAMETERS>
- ACTIVITY OUT PARAMETERS>
- PARAMETER NODE ID="112" PARAM DATA TYPE="STRING"
PARAM_CAPTION="RESULTS METADATA" PARAM_NAME="METADOC"
PARAM TYPE="OUT">
 PARAM SOURCE />
 </PARAMETER>
- <PARAMETER NODE_ID="113" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="RESULTS" PARAM_NAME="RESULTSDOC" PARAM_TYPE="OUT">
 <PARAM SOURCE />
 </PARAMETER>
- <PARAMETER NODE_ID="114" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="ROW
COUNT" PARAM_NAME="ROWCOUNT" PARAM TYPE="OUT">
 <PARAM SOURCE />
 </PARAMETER>
 </ACTIVITY OUT PARAMETERS>
 </ACTIVITY>
```

FIG. 210

- <ACTIVITY NODE_ID="116">
- <activity_header activity_notes="activity notes"
- ACTIVITY_DESCRIPTION="ACTIVITY DESCRIPTION" />
- <activity_implementation directive_vendor="dpa"
- THREADING_EFFECT="STANDARD" DIRECTIVE_NAME="TEXT EMAILER"
- DIRECTIVE_ID="TEXTEMAILER" DIRECTIVE_TYPE="" DIRECTIVE_VERSION="1"
- DIRECTIVE_DESC="TEXT EMAILER" />
 <ACTIVITY IN_PARAMETERS>
- <PARAMETER NODE_ID="117" PARAM_DATA_TYPE="STRING"
- PARAM_CAPTION="SUBJECT EXPRESSION" PARAM_NAME="SUBJECT_EXP" PARAM_TYPE="IN">
- <PARAM_SOURCE PARAM_TYPE="VALUE">OUT OF BOUNDS QTY CONDITION
- </PARAMETER>
- PARAMETER NODE_ID="118" PARAM_DATA_TYPE="STRING"
- PARAM_CAPTION="MESSAGE EXPRESSION" PARAM_NAME="MESSAGE_EXP" PARAM_TYPE="IN">
- PARAM_SOURCE PARAM_TYPE="VALUE">COMPONENT: #COMPONENT_ITEM_DESC#
 REQUIRES #REQUIRED_QUANTITY# ADDITIONAL UNITS</PARAM_SOURCE>
- /PARAMETER>
- -~PARAMETER NODE_ID="119" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="EMAIL
- ADDRESSES" PARAM_NAME="EMAIL_ADDRESSES" PARAM_TYPE="IN">
- PARAM_SOURCE PARAM_TYPE="VALUE">EXH@DPAPPLICATIONS.COM</PARAM_SOURCE>
 - APARAMETER>
- PARAMETER NODE_ID="120" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="SEND
- FROM ADDRESS" PARAM_NAME="FROM_ADDRESS" PARAM_TYPE="IN">
- <PARAM_SOURCE PARAM_TYPE="VALUE">DF@DPAPPLICATIONS.COM
- PARAM_SOURCE>
- </PARAMETER>
- <PARAMETER NODE_ID="121" PARAM_DATA_TYPE="STRING"
- PARAM_CAPTION="RESULTS METADATA" PARAM_NAME="METADOC" PARAM_TYPE="IN"> <PARAM_SOURCE PARAM_TYPE="ID">112</PARAM_SOURCE>
- </PARAMETER>
- <PARAMETER NODE_ID="122" PARAM_DATA_TYPE="STRING"
- PARAM_CAPTION="RESULTS" PARAM_NAME="RESULTSDOC" PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="ID">113</PARAM_SOURCE>
 - </PARAMETER>
 - </ACTIVITY_IN_PARAMETERS>

FIG. 21P

2116

- <ACTIVITY OUT PARAMETERS>
- <PARAMETER NODE_ID="123" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="ERROR MESSAGES" PARAM_NAME="ERROR" PARAM_TYPE="OUT">
 - <PARAM SOURCE />
 - </PARAMETER>
 - </ACTIVITY_OUT_PARAMETERS>
 - </ACTIVITY>
- <ACTIVITY NODE ID="125">
- <activity header activity notes="activity notes"

ACTIVITY DESCRIPTION="EMAIL LINK" />

<ACTIVITY IMPLEMENTATION DIRECTIVE VENDOR="DPA"</p>

THREADING_EFFECT="STANDARD" DIRECTIVE_NAME="SMTP EMAIL DIRECTIVE"

DIRECTIVE ID="MB2" DIRECTIVE TYPE="" DIRECTIVE VERSION="1"

DIRECTIVE DESC="SEND PUBLISHED PAGES" />

- ACTIVITY IN PARAMETERS>
- PARAMETER NODE_ID="126" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="EMAIL
- ADDRESSES" PARAM NAME="ADDRDOC" PARAM TYPE="IN">
- SPARAM_SOURCE PARAM_TYPE="ID">162</PARAM_SOURCE>
- <p
- PARAMETER NODE ID="127" PARAM DATA TYPE="STRING"
- PARAM_CAPTION="METADATA FOR ADDRDOC" PARAM_NAME="ADDRMETA"
 PARAM_TYPE="IN">
- SPARAM SOURCE PARAM TYPE="ID">163</PARAM SOURCE>
- /PARAMETER>
- -- PARAMETER NODE_ID="128" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="EMAIL
- COLUMN NAME" PARAM_NAME="ADDRCOLNAME" PARAM_TYPE="IN">
- <PARAM_SOURCE PARAM_TYPE="VALUE">EMAIL_ADDRESS
- <PARAMETER NODE_ID="129" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="EMAIL COLUMN NAME" PARAM_NAME="IDCOLNAME" PARAM_TYPE="IN">
- <PARAM_SOURCE PARAM_TYPE="VALUE">USERNAME</PARAM_SOURCE>
- <PARAMETER NODE ID="130" PARAM DATA TYPE="STRING"
- PARAM_CAPTION="SUBJECT" PARAM_NAME="SUBJECT" PARAM_TYPE="IN">
- <PARAM_SOURCE PARAM_TYPE="VALUE">QTY ANALYSIS UPDATED</PARAM_SOURCE>
 </PARAMETER>

FIG. 21Q

2117

- <PARAMETER NODE_ID="131" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="PAGE OWNER" PARAM_NAME="OWNER" PARAM_TYPE="IN"> <PARAM_SOURCE PARAM_TYPE="ID">102</PARAM_SOURCE> </PARAMETER> - <PARAMETER NODE_ID="132" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="PAGE</p> NAME" PARAM_NAME="PAGENAME" PARAM_TYPE="IN"> <PARAM_SOURCE PARAM_TYPE="ID">103</PARAM_SOURCE> </PARAMETER> - <PARAMETER NODE_ID="133" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="PAGE INSTANCE" PARAM_NAME="PAGEINST" PARAM_TYPE="IN"> <PARAM_SOURCE PARAM_TYPE="ID">104</PARAM_SOURCE> </PARAMETER> - PARAMETER NODE_ID="134" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="MAIL FORMAT" PARAM_NAME="FORMAT" PARAM_TYPE="IN"> *PARAM_SOURCE PARAM_TYPE="VALUE">DYNAM</PARAM_SOURCE> /PARAMETER> --- PARAMETER NODE ID="135" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="SEND FROM MAIL ADDRESS" PARAM_NAME="SENDFROM" PARAM_TYPE="IN"> PARAM_SOURCE PARAM_TYPE="VALUE">DF@DPAPPLICATIONS.COM</ PARAM SOURCE> **S/PARAMETER> A/ACTIVITY IN PARAMETERS> FACTIVITY OUT PARAMETERS>** PARAMETER NODE_ID="136" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="ERROR MESSAGES" PARAM_NAME="ERROR_MSG" PARAM_TYPE="OUT"> <PARAM SOURCE /> </PARAMETER> </ACTIVITY OUT PARAMETERS> </ACTIVITY> - <ACTIVITY NODE ID="152"> <activity_header activity_notes="activity notes" ACTIVITY_DESCRIPTION="ACTIVITY DESCRIPTION" /> <ACTIVITY IMPLEMENTATION DIRECTIVE VENDOR="DPA"</p> THREADING_EFFECT="STANDARD" DIRECTIVE_NAME="DATA DIRECTIVE"

DIRECTIVE ID="DB3" DIRECTIVE_VERSION="1" DIRECTIVE_DESC="RETRIEVE DATA AND

ASSEMBLE INTO RESULT SET" />

FIG. 21R

- <ACTIVITY IN PARAMETERS>
- <PARAMETER NODE_ID="153" PARAM_DATA_TYPE="PARAMITERIZED SQL STRING" PARAM CAPTION="SQL" PARAM NAME="SQL" PARAM TYPE="IN">
- <PARAM_SOURCE PARAM_TYPE="VALUE">SELECT USERNAME,EMAIL_ADDRESS FROM
 OA3.DF_QTYAPP_USERS</PARAM_SOURCE>
 - </PARAMETER>
- <PARAMETER NODE ID="154" PARAM DATA TYPE="STRING"
- PARAM_CAPTION="CONNECTION STRING" PARAM_NAME="CONNECTION_STRING" PARAM TYPE="IN">
 - <PARAM SOURCE
- PARAM_TYPE="VALUE">JDBC:ORACLE:THIN:@HD.DPAPPLICATIONS.COM:1521:NRB816</P>
- </PARAMETER>
- <PARAMETER NODE ID="155" PARAM DATA TYPE="STRING"
- PARAM_CAPTION="DATABASE USER NAME" PARAM_NAME="USERNAME"
- PARAM_TYPE="IN">
- PARAM_SOURCE PARAM_TYPE="VALUE">OA3</PARAM_SOURCE>
- </PARAMETER>
- PARAM_CAPTION="DATABASE PASSWORD" PARAM_NAME="PWD" PARAM_TYPE="IN">
 PARAM_SOURCE PARAM_TYPE="VALUE">OA3</PARAM_SOURCE>
- "</PARAMETER>
- -SPARAMETER NODE_ID="157" PARAM_DATA_TYPE≈"STRING" PARAM_CAPTION="P1"
 PARAM NAME="P1" PARAM TYPE="IN">
- SPARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
- ***/PARAMETER>**
- PARAMETER NODE_ID="158" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P2" PARAM NAME="P2" PARAM TYPE="IN">
- <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
- </PARAMETER>
- <PARAMETER NODE_ID="159" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P3" PARAM NAME="P3" PARAM TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 - </PARAMETER>
- <PARAMETER NODE_ID="160" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P4" PARAM NAME="P4" PARAM TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 - </PARAMETER>
- <PARAMETER NODE_ID="161" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P5" PARAM NAME="P5" PARAM TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 - </PARAMETER>
 - </ACTIVITY IN PARAMETERS>

FIG. 21S

NOTES="NOTES" />

2119

- <ACTIVITY OUT PARAMETERS> - <PARAMETER NODE ID="162" PARAM DATA TYPE="STRING" PARAM CAPTION="RESULT DATA" PARAM NAME="RESULTSET" PARAM TYPE="OUT"> <PARAM SOURCE /> </PARAMETER> - <PARAMETER NODE ID="163" PARAM DATA TYPE="STRING" PARAM CAPTION="RESULT METADATA" PARAM NAME="RESULTMETADATA" PARAM TYPE="OUT"> <PARAM SOURCE /> </PARAMETER> </ACTIVITY OUT PARAMETERS> </ACTIVITY> JDF WORKFLOW ACTIVITIES> -SDF WORKFLOW TRANSITIONS> §TRANSITION NODE ID="24" FROM ACTIVITY ID="11" TO ACTIVITY ID="18" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> TRANSITION NODE ID="25" FROM ACTIVITY ID="11" TO ACTIVITY ID="21" TEANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> STRANSITION NODE ID="71" FROM ACTIVITY ID="26" TO ACTIVITY ID="65" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> ■TRANSITION NODE ID="78" FROM ACTIVITY ID="39" TO ACTIVITY ID="72" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> TRANSITION NODE ID="85" FROM ACTIVITY ID="52" TO ACTIVITY ID="79" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> TRANSITION NODE ID="105" FROM ACTIVITY ID="65" TO ACTIVITY ID="87" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="106" FROM ACTIVITY ID="72" TO ACTIVITY ID="87" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE_ID="107" FROM_ACTIVITY_ID="79" TO_ACTIVITY_ID="87" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="115" FROM ACTIVITY ID="52" TO ACTIVITY ID="108" TRANSITION_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="124" FROM ACTIVITY ID="108" TO ACTIVITY ID="116" TRANSITION EXPRESSION="#114# > "0"" DESCRIPTION="EMAIL ONLY EXCEPTIONS"

FIG. 21T

2120

<TRANSITION NODE ID="137" FROM ACTIVITY ID="87" TO ACTIVITY ID="125" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="164" FROM ACTIVITY ID="18" TO ACTIVITY ID="152" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="165" FROM ACTIVITY ID="21" TO ACTIVITY ID="152"</p> TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="166" FROM ACTIVITY ID="152" TO ACTIVITY ID="26"</p> TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE_ID="167" FROM_ACTIVITY_ID="152" TO ACTIVITY ID="39" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="168" FROM ACTIVITY ID="152" TO ACTIVITY ID="52" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> DF WORKFLOW TRANSITIONS> - <DF WORKFLOW EDITOR> *ACTIVITY VISUAL EDITING NODE ID="11" YCOORD="140" XCOORD="12" /> ACTIVITY VISUAL EDITING NODE ID="18" YCOORD="330" XCOORD="47" /> ₹ACTIVITY VISUAL EDITING NODE ID="21" YCOORD="50" XCOORD="60" /> ACTIVITY VISUAL EDITING NODE ID="26" YCOORD="200" XCOORD="294" /> ACTIVITY VISUAL EDITING NODE ID="39" YCOORD="70" XCOORD="294" /> ACTIVITY VISUAL EDITING NODE ID="52" YCOORD="320" XCOORD="304" /> *ACTIVITY VISUAL EDITING NODE ID="65" YCOORD="200" XCOORD="408" /> SACTIVITY VISUAL EDITING NODE ID="72" YCOORD="70" XCOORD="408" /> SACTIVITY VISUAL EDITING NODE ID="79" YCOORD="320" XCOORD="428" /> ACTIVITY VISUAL EDITING NODE ID="87" YCOORD="200" XCOORD="537" /> ₹ACTIVITY VISUAL EDITING NODE ID="108" YCOORD="430" XCOORD="359" /> <ACTIVITY VISUAL EDITING NODE ID="116" YCOORD="420" XCOORD="587" /> <ACTIVITY VISUAL EDITING NODE ID="125" YCOORD="320" XCOORD="580" /> <ACTIVITY VISUAL EDITING NODE ID="152" YCOORD="200" XCOORD="160" /> </DF WORKFLOW EDITOR> </DF WORKFLOW>

FIG. 22A 2201

```
<DP QUERY DEF VERSION="1">
  <DPA IDENTIFIERS DATA SET="OAS" WH OWNER NAME="PART"/>
  <HINTS/>
  <COLUMN DEFS>
    <COLUMN DEF SUMMARY TYPE="SUM" COLUMN NAME="PTD BUDGET"</p>
COLUMN ALIAS="PTD BUDGET" COLUMN_SORT_ORDER="3"
COLUMN SORT ATTRIBUTE="NONE" COLUMN TYPE="MEASURE" COLUMN EXPR=""
COLUMN POSITION="3" TABLE ALIAS="INCOME STMT A" COLUMN TAG="PTD BUDGET"/
    <COLUMN DEF SUMMARY TYPE="NONE" COLUMN NAME="LINE NAME"</p>
COLUMN ALIAS="LINE NAME" COLUMN SORT ORDER="1"
COLUMN SORT ATTRIBUTE="ASC" COLUMN TYPE="ATTRIBUTE" COLUMN EXPR=""
COLUMN POSITION="1" TABLE ALIAS="INC STMT LINES D" COLUMN TAG="LINE NAME"/
    <COLUMN DEF SUMMARY TYPE="SUM" COLUMN NAME="PTD VARIANCE PCT"</p>
COLUMN ALIAS="PTD VARIANCE PCT" COLUMN SORT ORDER="6"
GOLUMN SORT ATTRIBUTE="NONE" COLUMN TYPE="MEASURE" COLUMN EXPR=""
COLUMN POSITION="6" TABLE ALIAS="INCOME STMT A"
COLUMN TAG="PTD VAR PCT"/>
    <COLUMN DEF SUMMARY TYPE="NONE" COLUMN NAME="DEPARTMENT DESC"</p>
COLUMN ALIAS="DEPT DESC" COLUMN SORT ORDER="2"
COLUMN SORT ATTRIBUTE="ASC" COLUMN TYPE="ATTRIBUTE" COLUMN EXPR=""
COLUMN POSITION="2" TABLE ALIAS="DEPARTMENT D" COLUMN TAG="DEPT DESC"/>
    <COLUMN DEF SUMMARY TYPE="SUM" COLUMN NAME="PTD VARIANCE"</p>
♥OLUMN ALIAS="PTD VARIANCE" COLUMN SORT ORDER="5"
COLUMN SORT ATTRIBUTE="NONE" COLUMN TYPE="MEASURE" COLUMN EXPR=""
COLUMN POSITION="5" TABLE_ALIAS="INCOME_STMT_A" COLUMN TAG="PTD VAR"/>
    <COLUMN DEF SUMMARY TYPE="SUM" COLUMN NAME="PTD ACTUAL"
COLUMN ALIAS="PTD ACTUAL" COLUMN SORT ORDER="4"
COLUMN SORT ATTRIBUTE="NONE" COLUMN TYPE="MEASURE" COLUMN EXPR=""
COLUMN_POSITION="4" TABLE_ALIAS="INCOME STMT A" COLUMN TAG="PTD ACTUAL"/
  </COLUMN DEFS>
```

FIG. 22B

```
<TABLE DEFS>
    <TABLE_DEF TABLE_ALIAS="VENDOR_D" TABLE_NAME="VENDOR_D"/>
    <TABLE_DEF TABLE_ALIAS="AP_INV_DETAIL_F" TABLE_NAME="AP_INV_DETAIL_F"/>
    <TABLE_DEF TABLE_ALIAS="INCOME_STMT_A" TABLE_NAME="INCOME_STMT_A"/>
    <TABLE_DEF TABLE_ALIAS="DEPARTMENT_D" TABLE_NAME="DEPARTMENT_D"/>
    <TABLE_DEF TABLE_ALIAS="INC_STMT_LINES_D"
TABLE_NAME="INC_STMT_LINES_D"/>
  </TABLE DEFS>
  <DETAIL FILTERS>
    <FILTER FILTER_TYPE="VALUE" COLUMN_TEXT="PERIOD_KEY"
TABLE_ALIAS="AP_INV_DETAIL_F" FILTER_PREC_OPER="AND" FILTER_OPERATOR="=">
     <FILTER VALUE VALUE DATA TYPE="STRING">DEC-97</FILTER_VALUE>
    </FILTER>
    <FILTER FILTER_TYPE="VALUE" COLUMN_TEXT="VENDOR_TYPE"
TABLE ALIAS="VENDOR D" FILTER PREC OPER="AND" FILTER OPERATOR="=">
     <FILTER_VALUE VALUE_DATA_TYPE="STRING">EMPLOYEE</FILTER_VALUE>
J.
    </FILTER>
<FILTER FILTER TYPE="VALUE" COLUMN_TEXT="COMPANY_KEY"
TABLE_ALIAS="AP_INV_DETAIL_F" FILTER_PREC_OPER="AND" FILTER_OPERATOR="=">
     <FILTER VALUE VALUE DATA TYPE="STRING">01</FILTER VALUE>
    </FILTER>
    <FILTER FILTER TYPE="VALUE" COLUMN TEXT="DEPARTMENT KEY"
TABLE_ALIAS="AP_INV_DETAIL_F" FILTER_PREC_OPER="AND" FILTER_OPERATOR="=">
     <FILTER_VALUE VALUE_DATA_TYPE="STRING">560</FILTER_VALUE>
    </FILTER>
 <AGGREGATE FILTERS>
    <FILTER FILTER_TYPE="VALUE" COLUMN_TEXT="SUM(INVOICE_LINE_AMOUNT)"</pre>
TABLE ALIAS="AP INV DETAIL_F" FILTER_PREC_OPER="AND"
FILTER_OPERATOR=">">
      <FILTER_VALUE VALUE_DATA_TYPE="NUMBER">0</FILTER_VALUE>
    </FILTER>
   </AGGREGATE FILTERS>
  </DP_QUERY_DEF>
```

FIG. 23A

```
- < DP SCHEMA DOC VERSION="1">
 <DPA QUERY SERVER INFO SERVICE="DPA_QUERY_SERVER" MACHINE="EXH 2K"</pre>
PORT="8069" WAREHOUSE SERVER="HD.DPAPPLICATIONS.COM"
WAREHOUSE DBNAME="DEMO30" WAREHOUSE_OWNER="RROC"
SCHEMA="AP_INV_DETAIL_F" DATA_SET="NW">FOODADDY</
DPA_QUERY SERVER INFO>
- <DP DIMENSIONS>
- <DIMENSION LABEL="ACCOUNTING DATE" NAME="ACCOUNTING DATE D">
  <ATTRIBUTE LABEL="ACCOUNTING DATE KEY" NAME="ACCOUNTING DATE KEY" />
  <ATTRIBUTE LABEL="ACCOUNTING MONTH" NAME="ACCOUNTING MONTH" />
  <a tribute label="accounting period" name="accounting period" />
  <attribute label="accounting period key"
NAME="ACCOUNTING PERIOD KEY" />

←ATTRIBUTE LABEL="ACCOUNTING PERIOD QUARTER"

NAME="ACCOUNTING PERIOD QUARTER" />
  ATTRIBUTE LABEL="ACCOUNTING QUARTER" NAME="ACCOUNTING_QUARTER" />
  ATTRIBUTE LABEL="ACCOUNTING WEEK ENDING"
NAME="ACCOUNTING WEEK ENDING" />
  ATTRIBUTE LABEL="ACCOUNTING YEAR" NAME="ACCOUNTING YEAR" />
  </DIMENSION>
-=<DIMENSION LABEL="ACCOUNT" NAME="ACCOUNT D">
  SATTRIBUTE LABEL="ACCOUNT" NAME="ACCOUNT" />
  ATTRIBUTE LABEL="LINE NAME" NAME="LINE NAME" />
 ATTRIBUTE LABEL="LINE SEQUENCE KEY" NAME="LINE SEQUENCE KEY" />
  SATTRIBUTE LABEL="REPORT SECTION" NAME="REPORT SECTION" />
  SATTRIBUTE LABEL="REPORT SEQUENCE" NAME="REPORT SEQUENCE" />
  <ATTRIBUTE LABEL="ACCOUNT KEY" NAME="ACCOUNT KEY" />
  <a tribute label="account description" name="account desc" />
  </DIMENSION>
- <DIMENSION LABEL="ACCOUNT ROLLUPS" NAME="ACCOUNT RLUP D">
  <attribute label="account" name="account" />
  <a tribute label="account key" name="account key" />
  <a tribute label="account rollup description" name="rollup desc" />
  <a tribute label="account rollup code" name="rollup code" />
  <a tribute label="account description" name="account desc" />
   </DIMENSION>
 - <DIMENSION LABEL="AP HOLD CODES" NAME="AP HOLD CODE D">
  <a href="AP"><a href="AP">ATTRIBUTE LABEL="AP HOLD CODE" /></a>
  <a href="AP HOLD CODE DESCRIPTION" NAME="AP HOLD CODE DESC" NAME="AP HOLD CODE DESC" NAME="AP HOLD CODE DESC" NAME="AP HOLD CODE DESC" NAME="AP HOLD CODE DESCRIPTION" NAME="AP HOLD CODE DESC" NAME="AP HOLD CODE DESCRIPTION" NAME AP HOLD CODE DESCRIPTION NAME AP HOLD C
  <a href="AP HOLD CODE KEY" NAME="AP HOLD CODE KEY" />
  <ATTRIBUTE LABEL="AP HOLD CODE TYPE" NAME="AP HOLD CODE TYPE" />
   </DIMENSION>
```

FIG. 23B

```
- <DIMENSION LABEL="AP HOLD STATUS" NAME="AP HOLD STATUS D">
      <a href="AP HOLD STATUS" NAME="AP HOLD STATUS" />
      <a href="AP HOLD STATUS KEY" NAME="AP HOLD STATUS KEY" />
       </DIMENSION>
 - <DIMENSION LABEL="AP INVOICES" NAME="AP_INVOICE D">
       <ATTRIBUTE LABEL="AP INVOICE NUMBER" NAME="AP INVOICE" />
      <a href="AP"><a hr
      <a href="AP"><a hr
      </DIMENSION>
 - <DIMENSION LABEL="AP INVOICE TYPES" NAME="AP INVOICE TYPE D">
      <ATTRIBUTE LABEL="AP INVOICE TYPE" NAME="AP INVOICE TYPE" />
      <a href="AP"><a hr
      </DIMENSION>
 - DIMENSION LABEL="AP PAYMENT TERMS" NAME="AP_PAYMENT TERM D">
      SATTRIBUTE LABEL="AP PAYMENT TERM" NAME="AP PAYMENT TERM" />
     SATTRIBUTE LABEL="AP PAYMENT TERM DESCRIPTION"
 NAME="AP PAYMENT TERM DESC" />
      ATTRIBUTE LABEL="AP PAYMENT TERM KEY" NAME="AP_PAYMENT_TERM_KEY" />
      </DIMENSION>
 - DIMENSION LABEL="PO AUTHORIZER" NAME="AUTHORIZER D">
     ATTRIBUTE LABEL="AUTHORIZER" NAME="AUTHORIZER" />
     SATTRIBUTE LABEL="AUTHORIZER KEY" NAME="AUTHORIZER KEY" />
     DIMENSION>
 - DIMENSION LABEL="BUYERS" NAME="BUYER D">
     SATTRIBUTE LABEL="BUYER" NAME="BUYER" />
     ATTRIBUTE LABEL="AUTHORIZATION LIMIT" NAME="BUYER_AUTHORIZATION_LIMIT"
      <ATTRIBUTE LABEL="END DATE ACTIVE" NAME="BUYER END DATE ACTIVE" />
      <a href="buyer"><a href="buyer
      <ATTRIBUTE LABEL="START DATE ACTIVE" NAME="BUYER START_DATE ACTIVE" />
      </DIMENSION>
- <DIMENSION LABEL="COMPANY" NAME="COMPANY D">
      <ATTRIBUTE LABEL="COMPANY" NAME="COMPANY" />
      <ATTRIBUTE LABEL="COMPANY DESCRIPTION" NAME="COMPANY DESC" />
     <a href="company"><a href="com
      </DIMENSION>
- <DIMENSION LABEL="CURRENCY" NAME="CURRENCY D">
      <ATTRIBUTE LABEL="CURRENCY" NAME="CURRENCY" />
      <ATTRIBUTE LABEL="CURRENCY DESCRIPTION" NAME="CURRENCY DESC" />
      <ATTRIBUTE LABEL="CURRENCY KEY" NAME="CURRENCY KEY" />
     </DIMENSION>
```

FIG. 23C

```
- <DIMENSION LABEL="DEPARTMENT" NAME="DEPARTMENT_D">
  <ATTRIBUTE LABEL="DEPARTMENT" NAME="DEPARTMENT" />
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  <ATTRIBUTE LABEL="DEPARTMENT DESCRIPTION" NAME="DEPARTMENT DESC" />
   </DIMENSION>
- <DIMENSION LABEL="DEPARTMENT ROLLUPS" NAME="DEPARTMENT_RLUP_D">
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   <ATTRIBUTE LABEL="DEPARTMENT ROLLUP CODE" NAME="ROLLUP_CODE" />
   <attribute label="department description" name="department desc" />
   <ATTRIBUTE LABEL="DEPARTMENT KEY" NAME="DEPARTMENT_KEY" />
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- <DIMENSION LABEL="AP DUE DATES" NAME="DUE_DATE_D">
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   SATTRIBUTE LABEL="DUE MONTH" NAME="DUE MONTH" />
   EATTRIBUTE LABEL="DUE PERIOD" NAME="DUE PERIOD" />
   ATTRIBUTE LABEL="DUE PERIOD KEY" NAME="DUE PERIOD KEY" />
   ATTRIBUTE LABEL="DUE PERIOD QUARTER" NAME="DUE_PERIOD_QUARTER" />
   ATTRIBUTE LABEL="DUE QUARTER" NAME="DUE QUARTER" />
   SATTRIBUTE LABEL="DUE WEEK ENDING" NAME="DUE WEEK ENDING" />
   ATTRIBUTE LABEL="DUE YEAR" NAME="DUE_YEAR" />
   S/DIMENSION>
 -SDIMENSION LABEL="INVOICE DATES" NAME="INVOICE DATE D">
   ATTRIBUTE LABEL="INVOICE DATE KEY" NAME="INVOICE_DATE KEY" />
   ATTRIBUTE LABEL="INVOICE MONTH" NAME="INVOICE_MONTH" />
   ATTRIBUTE LABEL="INVOICE PERIOD" NAME="INVOICE_PERIOD" />
    <attribute label="Invoice Period Quarter"
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    <attribute label="invoice quarter" name="invoice_quarter" />
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    </DIMENSION>
  - <DIMENSION LABEL="JE BATCHS" NAME="JE BATCH D">
    <attribute label="actual flag" name="actual flag" />
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    <attribute label="je batch key" name="je_batch_key" />
    <attribute label="name" name="name" />
     <a triple><attribute label="org id" name="org id" />
     <attribute label="description" name="description" />
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```

FIG. 23D

```
- < DIMENSION LABEL="ORGANIZATIONS" NAME="ORGANIZATION_D">
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<a tribute label="organization type" name="organization_type" />
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- < DIMENSION LABEL="PA PROJECTS" NAME="PA PROJECT D">
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 <attribute label="project complete date"
NAME="PROJECT COMPLETE DATE" />
 <attribute label="project manager" name="project manager" />
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 <attribute label="project number" name="project number" />
 <attribute label="project officer" name="project officer" />
ATTRIBUTE LABEL="PROJECT SPONSOR" NAME="PROJECT SPONSOR" />
SATTRIBUTE LABEL="PROJECT START DATE" NAME="PROJECT START DATE" />
SATTRIBUTE LABEL="PROJECT STATUS" NAME="PROJECT STATUS" />
 ATTRIBUTE LABEL="PROJECT TITLE" NAME="PROJECT TITLE" />
 ATTRIBUTE LABEL="PROJECT TYPE" NAME="PROJECT TYPE" />
 </DIMENSION>
 ZDIMENSION LABEL="PA TASKS" NAME="PA TASK D">
 <ATTRIBUTE LABEL="PARENT TASK KEY" NAME="PARENT TASK KEY" />
 ATTRIBUTE LABEL="TASK LOCATION" NAME="TASK_LOCATION" />
 SATTRIBUTE LABEL="TASK NAME" NAME="TASK NAME" />
ATTRIBUTE LABEL="TASK MANAGER" NAME="TASK MANAGER" />
 ATTRIBUTE LABEL="TOP TASK NAME" NAME="TOP TASK NAME" />
 ATTRIBUTE LABEL="TOP TASK KEY" NAME="TOP TASK KEY" />
 <ATTRIBUTE LABEL="TASK WBS" NAME="TASK WBS" />
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 <a tribute label="task number" name="task number" />
 <a tribute label="task description" name="task desc" />
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 <attribute label="project key" name="pa project key" />
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FIG. 23E

```
- <DIMENSION LABEL="PERIODS" NAME="PERIOD D">
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   <attribute label="period start date" name="period start date" />
   <a tribute label="period type" name="period type" />
   <attribute label="Quarter" name="Quarter" />
   <ATTRIBUTE LABEL="YEAR" NAME="YEAR" />
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- <DIMENSION LABEL="PRODUCT" NAME="PRODUCT D">
   <attribute label="product" name="product" />
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   <a tribute label="product key" name="product key" />
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- < DIMENSION LABEL="PA PROJECT CLASSES" NAME="PROJECT CLASS D">
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NAME="PROJECT CLASS CATEGORY" />
   *ATTRIBUTE LABEL="PROJECT CLASS CODE" NAME="PROJECT CLASS CODE" />
   <ATTRIBUTE LABEL="PROJECT CLASS DESCRIPTION"</p>
NAME="PROJECT CLASS DESCRIPTION" />
  ATTRIBUTE LABEL="PROJECT KEY" NAME="PROJECT KEY" />
 S/DIMENSION>

ATTRIBUTE LABEL="REQUESTOR" NAME="REQUESTOR" />

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   <ATTRIBUTE LABEL="VENDOR SITE ADDRESS LINE2" NAME="ADDRESS LINE2" />
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   <a href="<a href="ATTRIBUTE LABEL="VENDOR HOLD REASON" />
   <ATTRIBUTE LABEL="VENDOR SITE PHONE NUMBER" NAME="PHONE NUMBER" />
```

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FIG. 23F

```
<ATTRIBUTE LABEL="VENDOR SITE PROVINCE" NAME="PROVINCE" />
 <attribute label="vendor site state" name="state" />
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NAME="TAX FEDERAL REPORT FLAG" />
  <a triple><attribute label="vendor tax reporting name"</a>
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 <ATTRIBUTE LABEL="VENDOR 1099 NUMBER" NAME="VENDOR 1099 NUM" />
 <ATTRIBUTE LABEL="VENDOR 1099 TYPE" NAME="VENDOR 1099 TYPE" />
  <a tribute label="Vendor corporate group"
NAME="VENDOR CORPORATE GROUP" />
  <attribute label="Vendor industry class"
NAME="VENDOR INDUSTRY CLASS" />
  ATTRIBUTE LABEL="VENDOR KEY" NAME="VENDOR KEY" />
  ATTRIBUTE LABEL="VENDOR NAME" NAME="VENDOR NAME" />
  ATTRIBUTE LABEL="VENDOR NUMBER" NAME="VENDOR NUMBER" />
  ATTRIBUTE LABEL="VENDOR ORGANIZATION TYPE" NAME="VENDOR ORG TYPE" />
  SATTRIBUTE LABEL="VENDOR PAYMENT PRIORITY"
NAME="VENDOR PAYMENT PRIORITY" />
 **ATTRIBUTE LABEL="VENDOR PAY GROUP" NAME="VENDOR PAY GROUP" />
  EATTRIBUTE LABEL="VENDOR SITE CODE" NAME="VENDOR SITE CODE" />
 ATTRIBUTE LABEL="VENDOR SITE KEY" NAME="VENDOR SITE KEY" />
  ATTRIBUTE LABEL="VENDOR TYPE" NAME="VENDOR TYPE" />
  SATTRIBUTE LABEL="VENDOR SITE ZIP" NAME="ZIP" />
  록/DIMENSION>
 -"<DIMENSION LABEL="AP INVOICE DETAILS" NAME="AP INV DETAIL F">
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  <a tribute label="buyer key" name="buyer key" />
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FIG. 23G

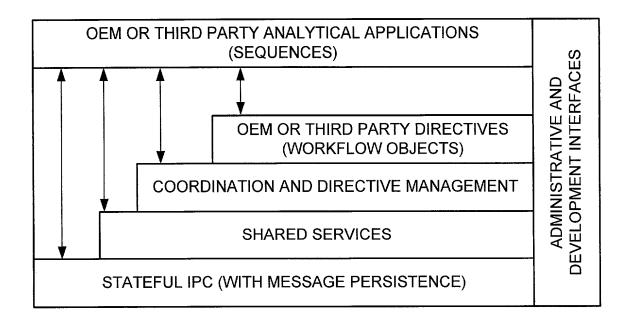
</DP SCHEMA DOC>

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TAGES TO COUNTY

FIG. 24







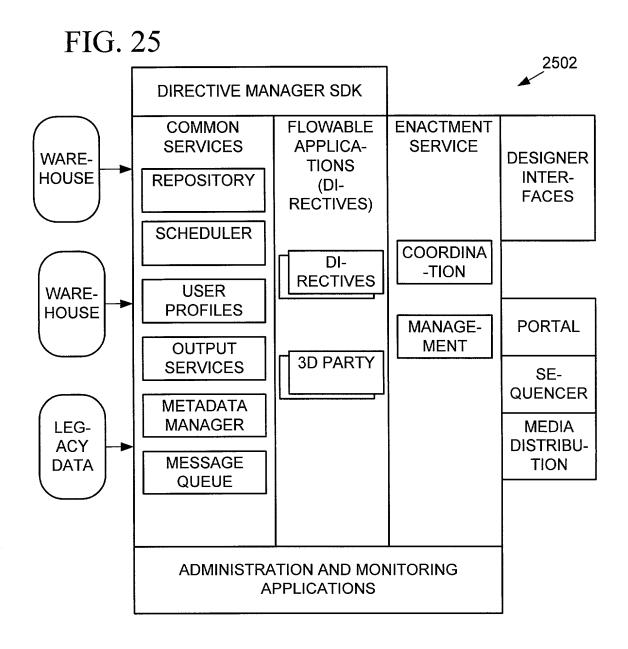
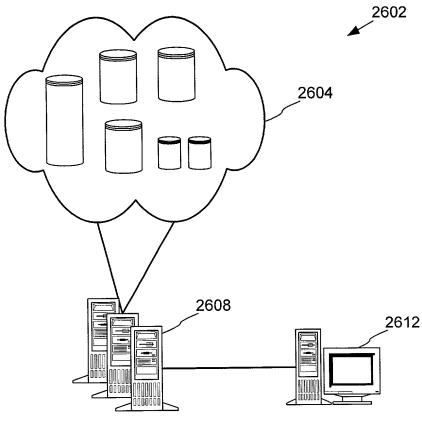


FIG. 26



Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Express Mail No.: EL754021250US, Attorney Docket No.: 6115-60713, Page 103 of 103